

DOMO General Catalogue



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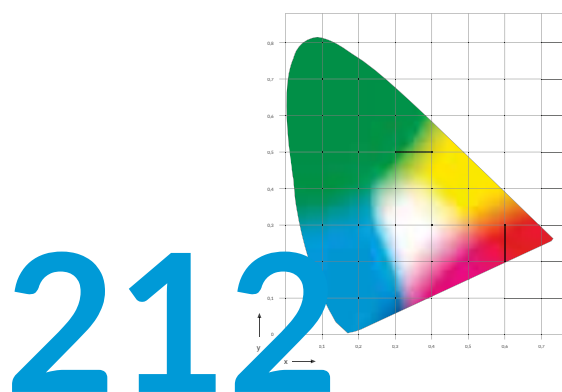
Ai1
All in one

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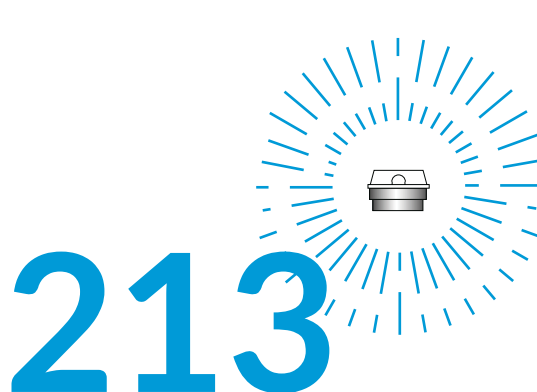
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Accessories and spare parts
Ø16mm and Ø22mm



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CIE chromatic diagram



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Protection degrees



LED Indicators

Spherical LED Indicators

Spherical LED Indicators

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP54**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

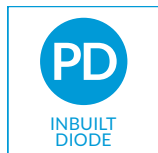
LED consumption: **15mA**

Weight: **8g (16/18) - 10g (16/24) - 15g (22/30) - 30g (22/48)**

Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Available with Inbuilt Diode (PD) to avoid reverse feeding and Tropicalization treatment.



Optional Blinking Light.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

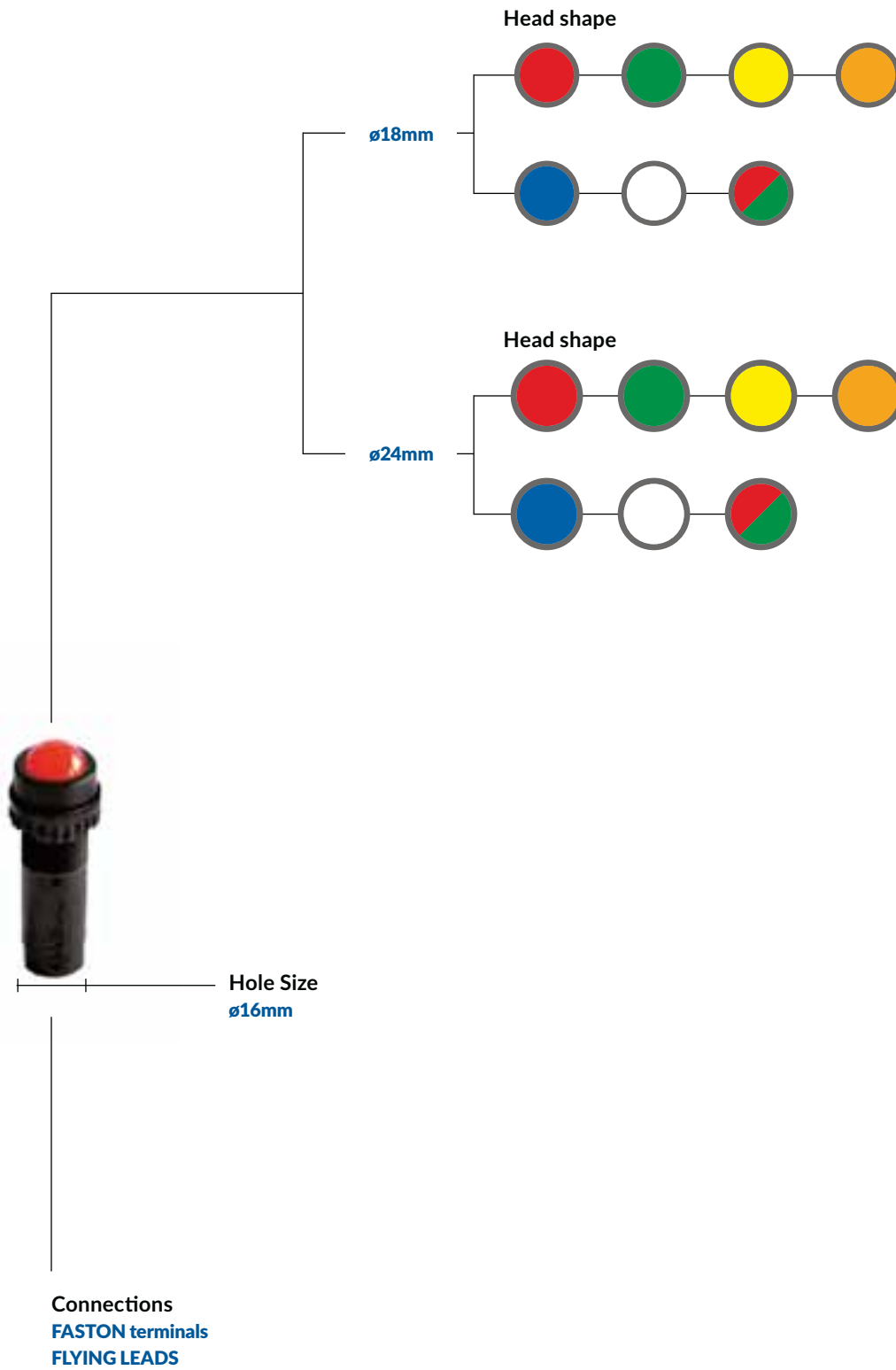
IEC CEI 20-22



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.

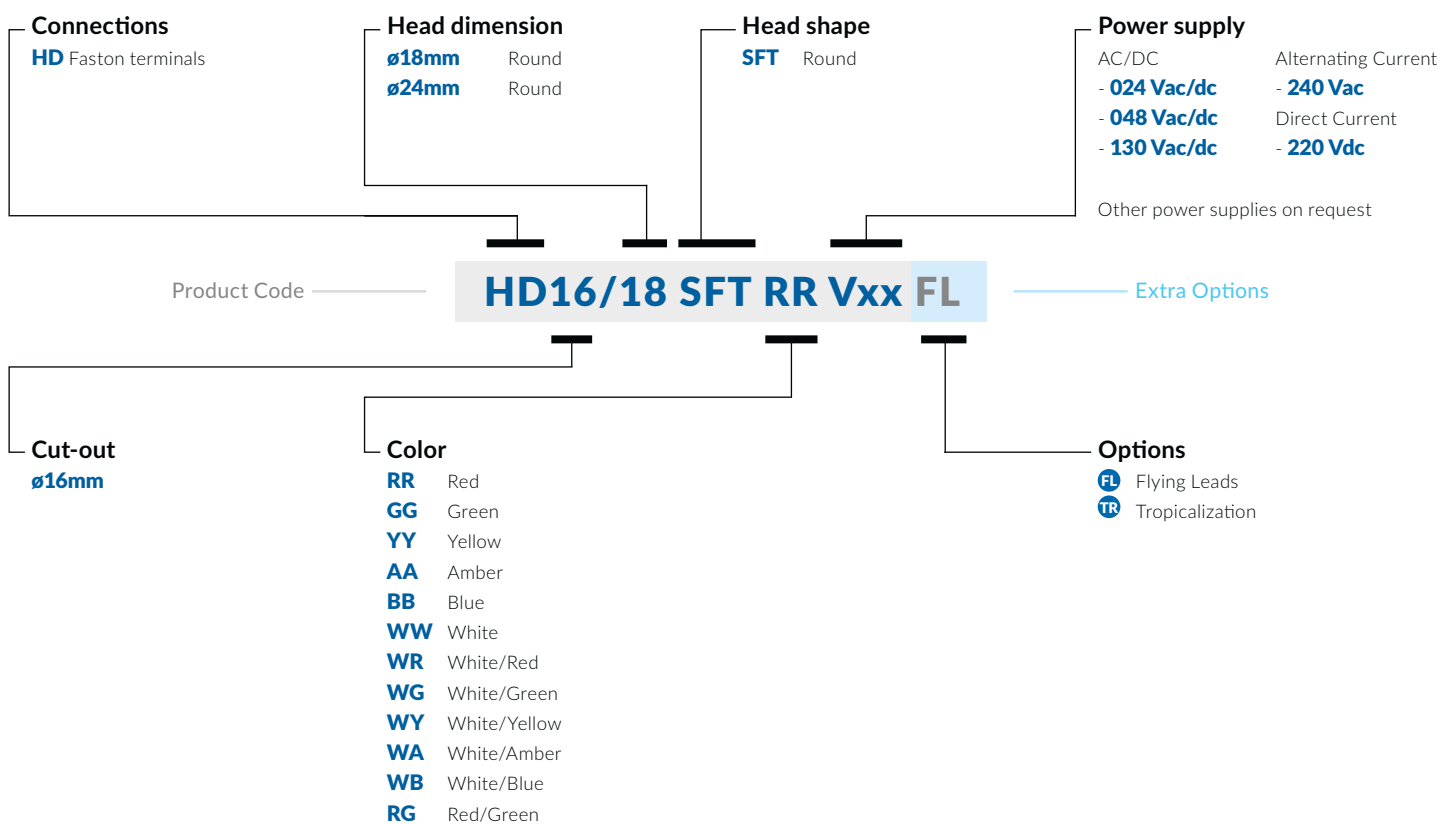


Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm, Screw terminals or Flying Leads.



Product code structure Ø16mm

Spherical LED Indicators



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



HD16/18 SFT - Faston terminals

HD16/24 SFT - Faston terminals

16/18
 Head Ø18mm
 Cut-out Ø16
 LED diffuser: Ø13,50mm



16/24
 Head Ø18mm
 Cut-out Ø16
 LED diffuser: Ø19mm



Colors	
LED diffuser	LED

Standard type

● Red	● Red	HD16/18 SFT RR Vxx	HD16/24 SFT RR Vxx
● Green	● Green	HD16/18 SFT GG Vxx	HD16/24 SFT GG Vxx
● Yellow	● Yellow	HD16/18 SFT YY Vxx	HD16/24 SFT YY Vxx
● Amber	● Amber	HD16/18 SFT AA Vxx	HD16/24 SFT AA Vxx
● Blue	● Blue	HD16/18 SFT BB Vxx	HD16/24 SFT BB Vxx
○ White	○ White	HD16/18 SFT WW Vxx	HD16/24 SFT WW Vxx
		FL TR	FL TR
○ White	● Red	HD16/18 SFT WR Vxx	HD16/24 SFT WR Vxx
○ White	● Green	HD16/18 SFT WG Vxx	HD16/24 SFT WG Vxx
○ White	● Yellow	HD16/18 SFT WY Vxx	HD16/24 SFT WY Vxx
○ White	● Amber	HD16/18 SFT WA Vxx	HD16/24 SFT WA Vxx
○ White	● Blue	HD16/18 SFT WB Vxx	HD16/24 SFT WB Vxx
		FL TR	FL TR

Bicolor LED

○ White	● Red/Green	HD16/18 SFT RG Vxx	HD16/24 SFT RG Vxx
		FL TR	FL TR

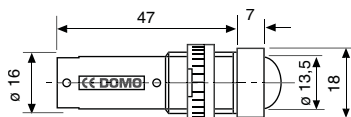
HD16/18 connections - Faston terminals

Spherical LED Indicators

HD16/24 connections - Faston terminals

HD16/18 SFT

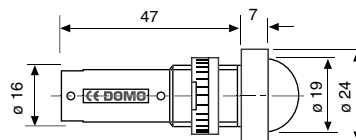
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

HD16/24 SFT

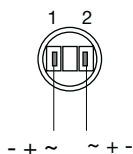
Dimensions mm 1:2



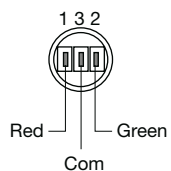
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

Monocolor

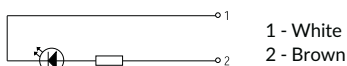


Bicolor

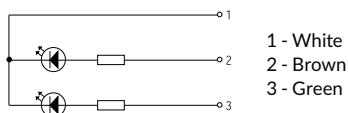


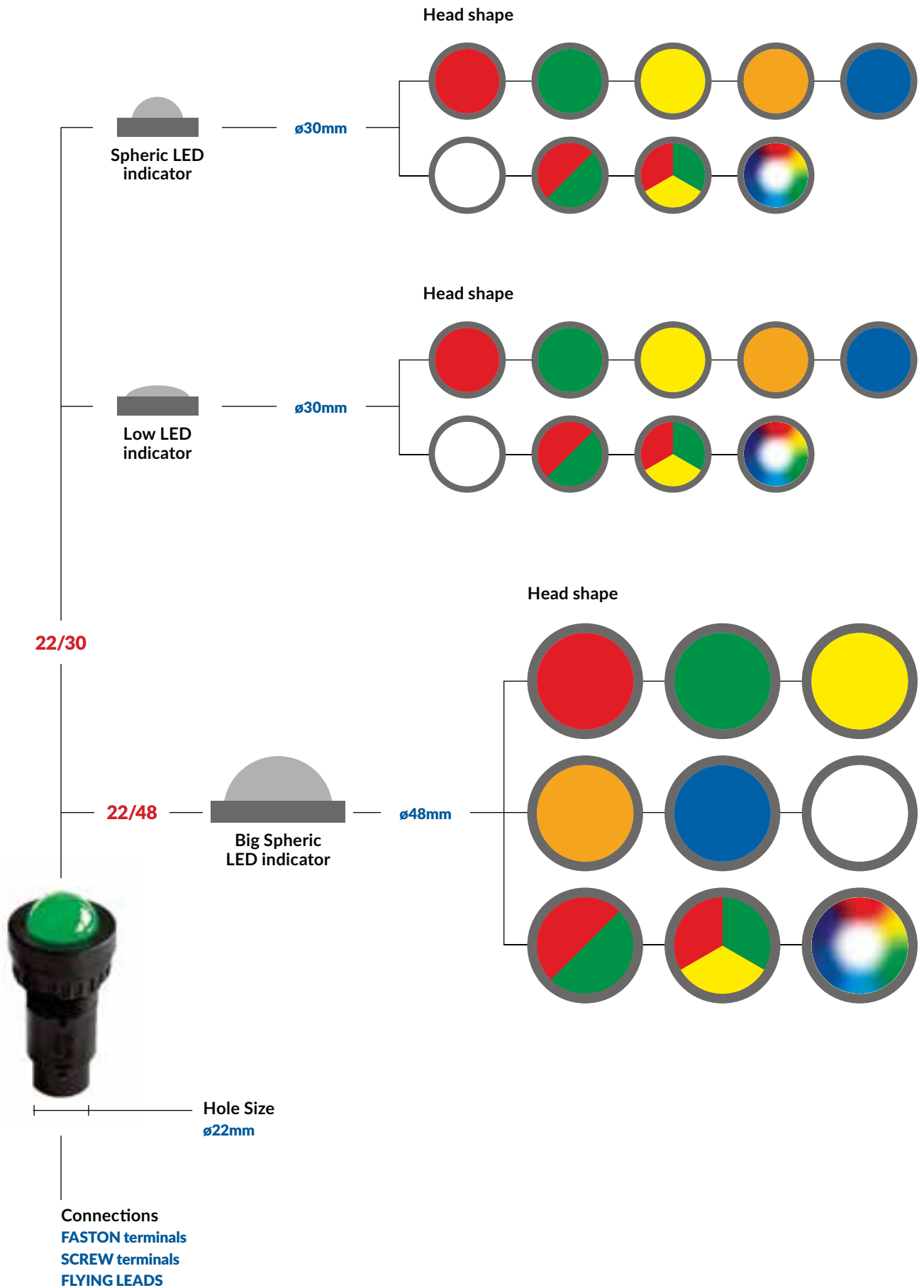
Flying Leads

Monocolor



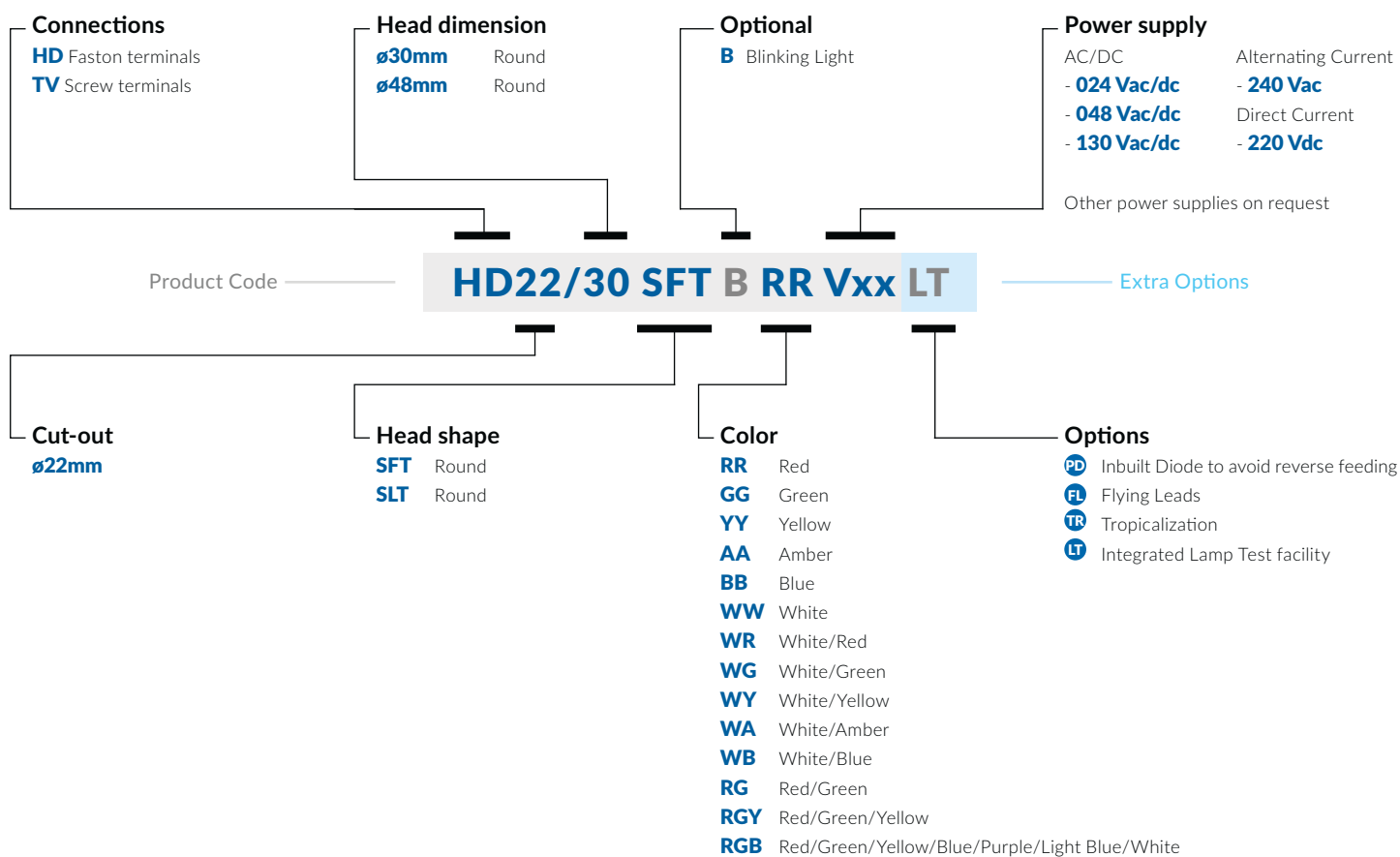
Bicolor





Product code structure Ø22mm

Spherical LED Indicators



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



HD22 SFT - Faston terminals

HD22 SLT - Faston terminals

SFT
 Head Ø30mm
 Cut-out Ø22
 LED diffuser: Ø20mm



SLT
 Head Ø30mm
 Cut-out Ø22
 LED diffuser: Ø24mm



Colors	
LED diffuser	LED

Standard type

● Red	● Red	HD22 SFT RR Vxx	HD22 SLT RR Vxx
● Green	● Green	HD22 SFT GG Vxx	HD22 SLT GG Vxx
● Yellow	● Yellow	HD22 SFT YY Vxx	HD22 SLT YY Vxx
● Amber	● Amber	HD22 SFT AA Vxx	HD22 SLT AA Vxx
● Blue	● Blue	HD22 SFT BB Vxx	HD22 SLT BB Vxx
○ White	○ White	HD22 SFT WW Vxx	HD22 SLT WW Vxx
		PD FL TR LT	PD FL TR LT
○ White	● Red	HD22 SFT WR Vxx	HD22 SLT WR Vxx
○ White	● Green	HD22 SFT WG Vxx	HD22 SLT WG Vxx
○ White	● Yellow	HD22 SFT WY Vxx	HD22 SLT WY Vxx
○ White	● Amber	HD22 SFT WA Vxx	HD22 SLT WA Vxx
○ White	● Blue	HD22 SFT WB Vxx	HD22 SLT WB Vxx
		PD FL TR LT	PD FL TR LT

Bicolor, Multicolor

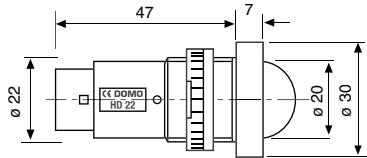
○ White	● Red/Green	HD22 SFT RG Vxx	HD22 SLT RG Vxx
○ White	● Red/Green/Yellow/ Blue/Purple/ Light Blue/White	HD22 SFT RGB Vxx	HD22 SLT RGB Vxx
		FL TR	FL TR

HD22 connections - Faston terminals

Spherical LED Indicators Low spherical LED Indicator

HD22 SFT

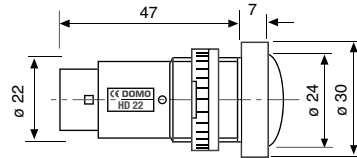
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

HD22 SLT

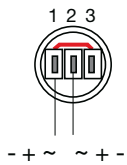
Dimensions mm 1:2



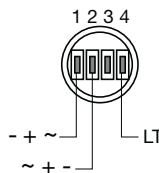
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

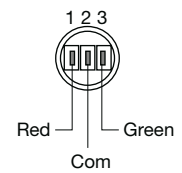
Monocolor



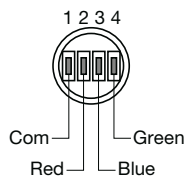
Monocolor + Lamp Test (LT)



Bicolor



Multicolor



● Red	=	● Red
● Green	=	● Green
● Blue	=	● Blue
● Red + ● Green	=	● Yellow
● Red + ● Blue	=	● Purple
● Green + ● Blue	=	● L. Blue
● Red + ● Green + ● Blue	=	○ White



TV22/30 SFT - Screw terminals

TV22/30 SLT - Screw terminals

SFT
 Head Ø30mm
 Cut-out Ø22
 LED diffuser: Ø20mm



SLT
 Head Ø30mm
 Cut-out Ø22
 LED diffuser: Ø24mm



Colors	LED
LED diffuser	LED

Standard type

● Red	● Red	TV22/30 SFT RR Vxx	TV22/30 SLT RR Vxx
● Green	● Green	TV22/30 SFT GG Vxx	TV22/30 SLT GG Vxx
● Yellow	● Yellow	TV22/30 SFT YY Vxx	TV22/30 SLT YY Vxx
● Amber	● Amber	TV22/30 SFT AA Vxx	TV22/30 SLT AA Vxx
● Blue	● Blue	TV22/30 SFT BB Vxx	TV22/30 SLT BB Vxx
○ White	○ White	TV22/30 SFT WW Vxx	TV22/30 SLT WW Vxx
		PD FL TR LT	PD FL TR LT
○ White	● Red	TV22/30 SFT WR Vxx	TV22/30 SLT WR Vxx
○ White	● Green	TV22/30 SFT WG Vxx	TV22/30 SLT WG Vxx
○ White	● Yellow	TV22/30 SFT WY Vxx	TV22/30 SLT WY Vxx
○ White	● Amber	TV22/30 SFT WA Vxx	TV22/30 SLT WA Vxx
○ White	● Blue	TV22/30 SFT WB Vxx	TV22/30 SLT WB Vxx
		PD FL TR LT	PD FL TR LT

Bicolor, Tricolor and Multicolor

○ White	● Red/Green	TV22/30 SFT RG Vxx	TV22/30 SLT RG Vxx
○ White	● Red/Green/Yellow	TV22/30 SFT RGY Vxx	TV22/30 SLT RGY Vxx
○ White	● Red/Green/Yellow/ Blue/Purple/ Light Blue/White	TV22/30 SFT RGB Vxx	TV22/30 SLT RGB Vxx
		FL TR	FL TR

Blinking Light

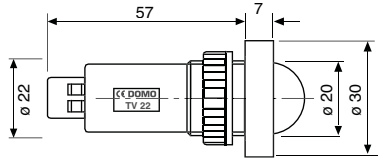
● Red	● Red	TV22/30 SFT B RR Vxx	TV22/30 SLT B RR Vxx
● Green	● Green	TV22/30 SFT B GG Vxx	TV22/30 SLT B GG Vxx
● Yellow	● Yellow	TV22/30 SFT B YY Vxx	TV22/30 SLT B YY Vxx
● Amber	● Amber	TV22/30 SFT B AA Vxx	TV22/30 SLT B AA Vxx
● Blue	● Blue	TV22/30 SFT B BB Vxx	TV22/30 SLT B BB Vxx
○ White	○ White	TV22/30 SFT B WW Vxx	TV22/30 SLT B WW Vxx
		FL TR Max 130V no LT	FL TR Max 130V no LT

TV22/30 connections - Screw terminals

Spherical LED Indicators Low spherical LED Indicator

TV22/30 SFT

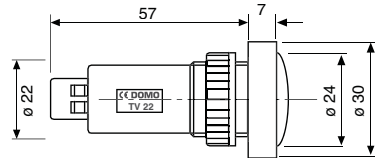
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/30 SLT

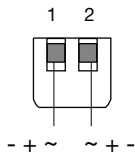
Dimensions mm 1:2



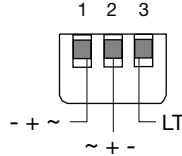
board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

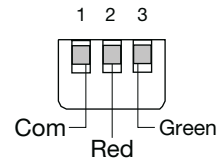
Monocolor



Monocolor + Lamp Test (LT)

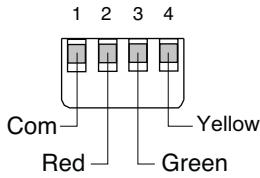


Bicolor

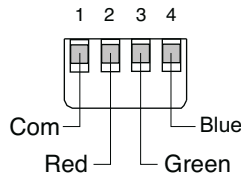


Screw terminal 16 AWG - 0,75 + 1,0mmq

Tricolor



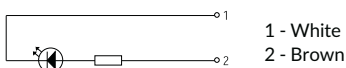
Multicolor



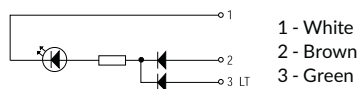
● Red	=	● Red
● Green	=	● Green
● Blue	=	● Blue
● Red + ● Green	=	● Yellow
● Red + ● Blue	=	● Purple
● Green + ● Blue	=	● L. Blue
● Red + ● Green + ● Blue	=	○ White

Flying Leads

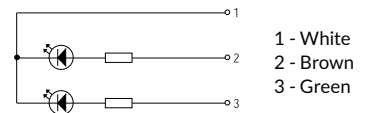
Monocolor



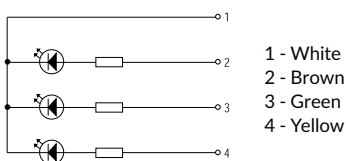
Monocolor + Lamp Test (LT)



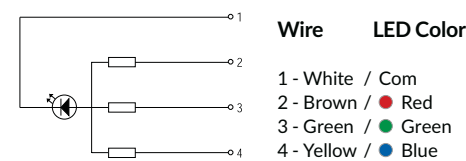
Bicolor



Tricolor



Multicolor



Wire LED Color

1 - White / Com
2 - Brown / ● Red
3 - Green / ● Green
4 - Yellow / ● Blue

Brown	=	● Red
Green	=	● Green
Yellow	=	● Blue
Brown + Green	=	● Yellow
Brown + Yellow	=	● Purple
Yellow + Green	=	● L. Blue
Brown + Green + Yellow	=	○ White



SFT
 Head Ø48mm
 Cut-out Ø22
 LED diffuser: Ø39mm



Colors	LED
LED diffuser	LED

Standard type

● Red	● Red	TV22/48 SFT RR Vxx
● Green	● Green	TV22/48 SFT GG Vxx
● Yellow	● Yellow	TV22/48 SFT YY Vxx
● Amber	● Amber	TV22/48 SFT AA Vxx
● Blue	● Blue	TV22/48 SFT BB Vxx
○ White	○ White	TV22/48 SFT WW Vxx

PD FL TR LT

○ White	● Red	TV22/48 SFT WR Vxx
○ White	● Green	TV22/48 SFT WG Vxx
○ White	● Yellow	TV22/48 SFT WY Vxx
○ White	● Amber	TV22/48 SFT WA Vxx
○ White	● Blue	TV22/48 SFT WB Vxx

PD FL TR LT

Bicolor, Tricolor and Multicolor

○ White	● Red/Green	TV22/48 SFT RG Vxx
○ White	● Red/Green/Yellow	TV22/48 SFT RGY Vxx
○ White	● Red/Green/Yellow/ Blue/Purple/ Light Blue/White	TV22/48 SFT RGB Vxx

FL TR

Blinking Light

● Red	● Red	TV22/48 SFT B RR Vxx
● Green	● Green	TV22/48 SFT B GG Vxx
● Yellow	● Yellow	TV22/48 SFT B YY Vxx
● Amber	● Amber	TV22/48 SFT B AA Vxx
● Blue	● Blue	TV22/48 SFT B BB Vxx
○ White	○ White	TV22/48 SFT B WW Vxx

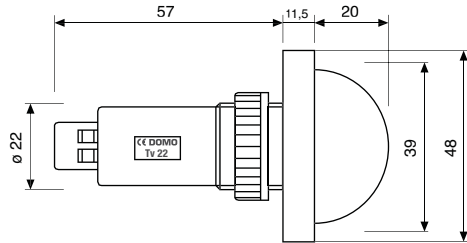
FL TR

TV22/48 connections - Screw terminals

Big spherical LED Indicator

TV22/30 SFT

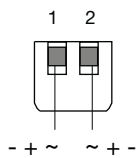
Dimensions mm 1:2



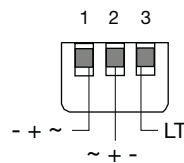
board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

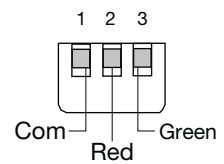
Monocolor



Monocolor + Lamp Test (LT)

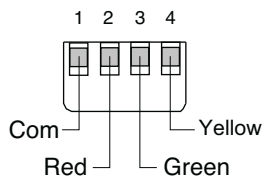


Bicolor

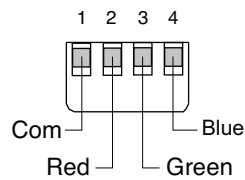


Screw terminal 16 AWG - 0,75 ÷ 1,0mmq

Tricolor



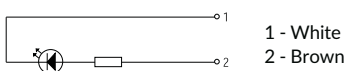
Multicolor



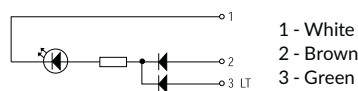
Red	=	Red
Green	=	Green
Blue	=	Blue
Red + Green	=	Yellow
Red + Blue	=	Purple
Green + Blue	=	L. Blue
Red + Green + Blue	=	White

Flying Leads

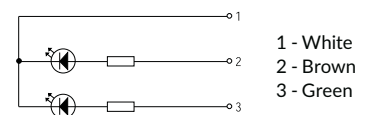
Monocolor



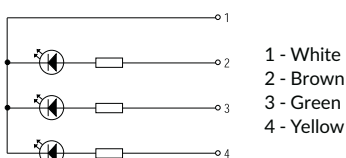
Monocolor + Lamp Test (LT)



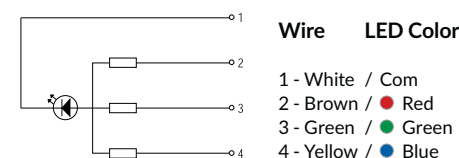
Bicolor



Tricolor



Multicolor



Wire LED Color

1 - White / Com
2 - Brown / Red
3 - Green / Green
4 - Yellow / Blue

Brown	=	Red
Green	=	Green
Yellow	=	Blue
Brown + Green	=	Yellow
Brown + Yellow	=	Purple
Yellow + Green	=	L. Blue
Brown + Green + Yellow	=	White



LED Indicators

Semaphore and Position LED Indicators

Semaphore and Position LED Indicators

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP54**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

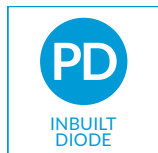
LED consumption: **20mA**

Weight: **13g (16/24) - 20g (22/30) - 35g (22/48)**

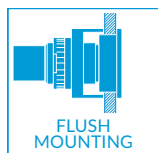
Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Available with Inbuilt Diode (PD) to avoid reverse feeding. Also is possible choose the Positive Common, Negative Common or Not Polarized options.



B type solution with low-profile Flush Mounting, to limit the external dimensions and improve the design of the panel.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

CEI EN 50266

CEI 20-22

IEC 60332-3



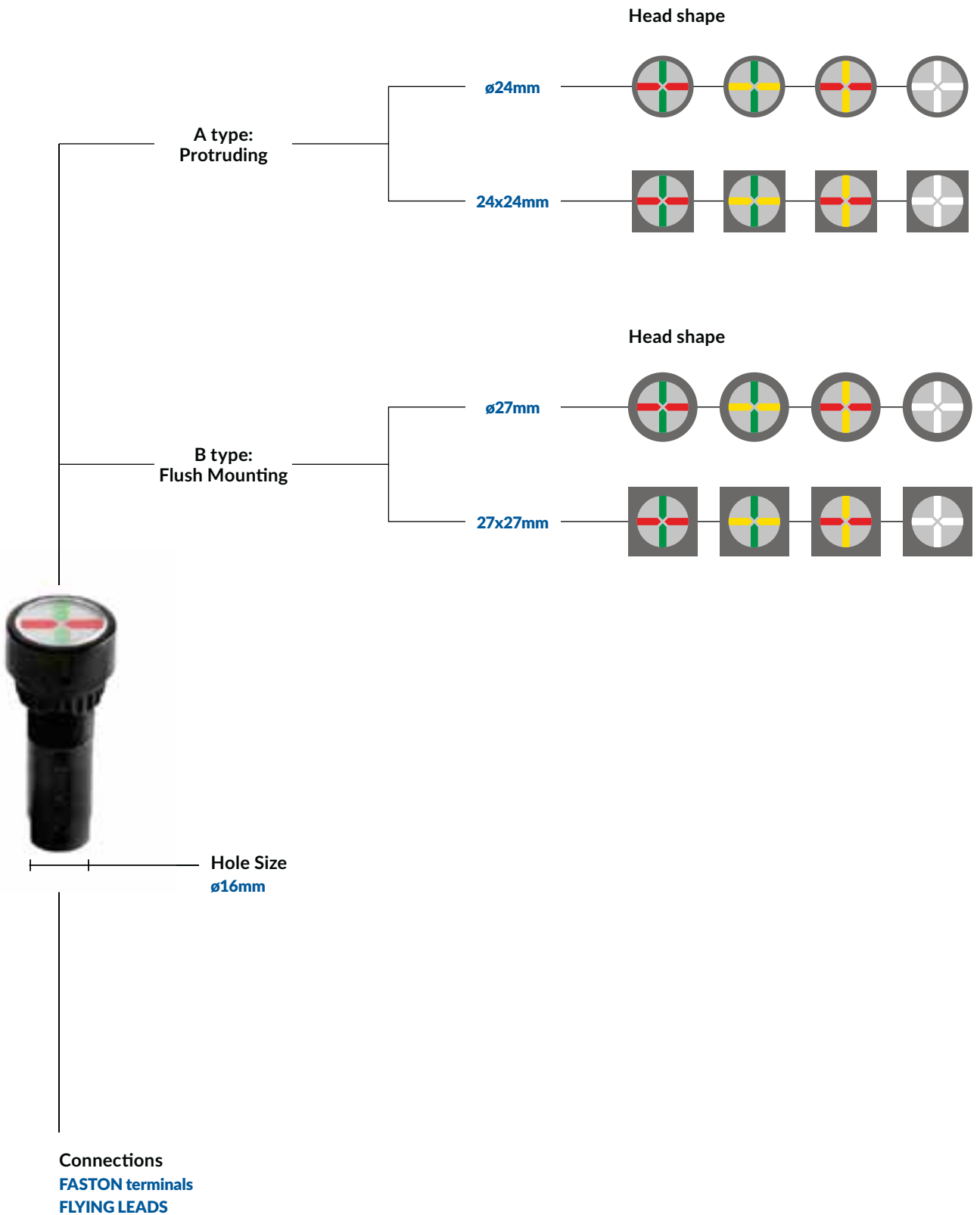
Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.



Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm, Screw terminals or Flying Leads.



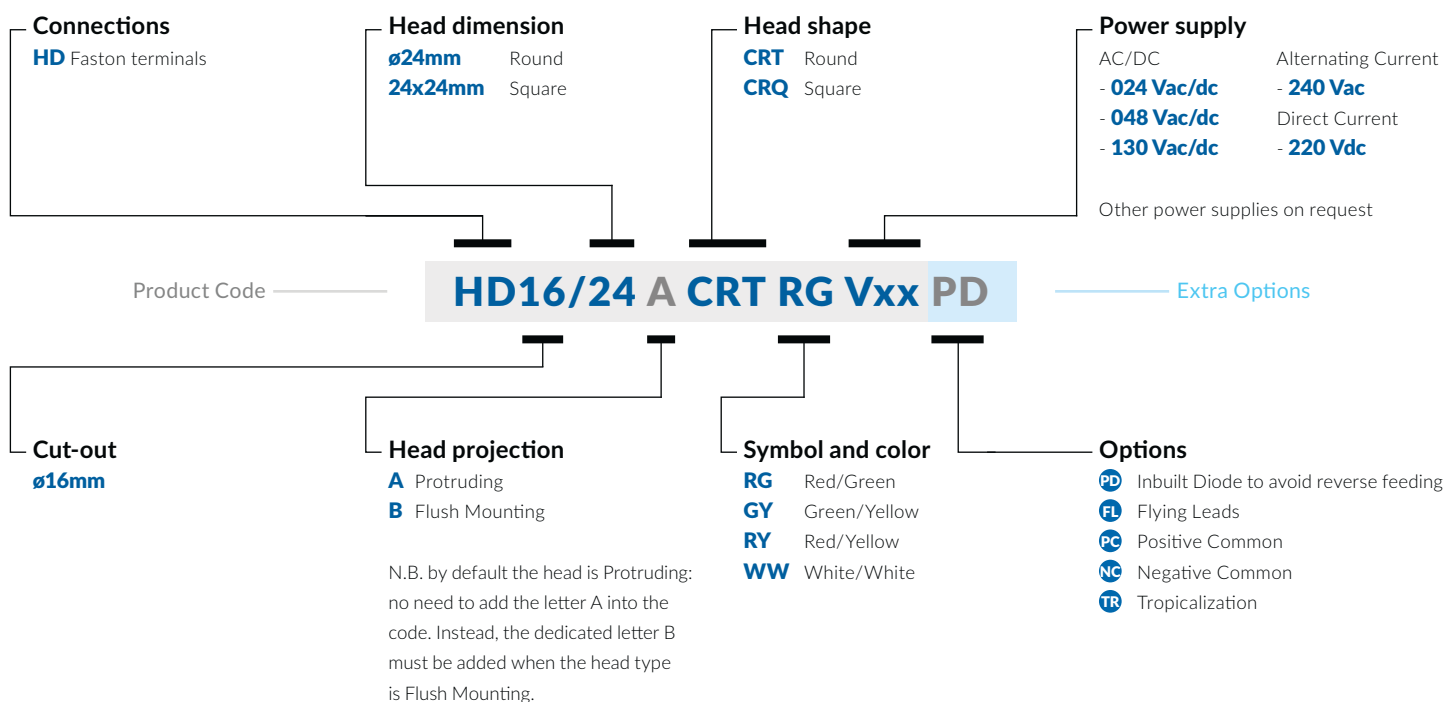
Product diagram Ø16mm Semaphore LED Indicators



Product code structure Ø16mm

Semaphore LED Indicators

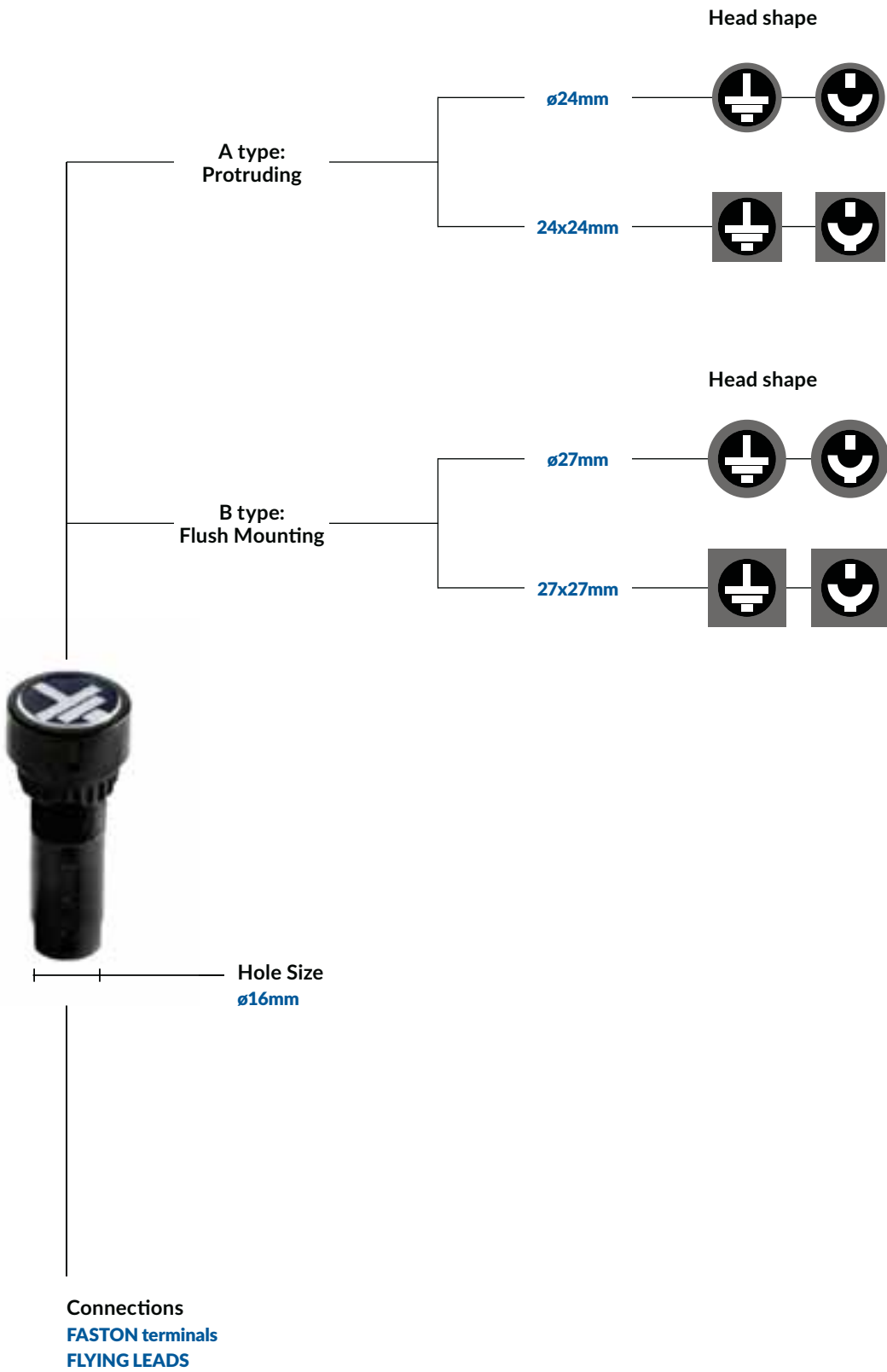
Semaphore and Position LED Indicators



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



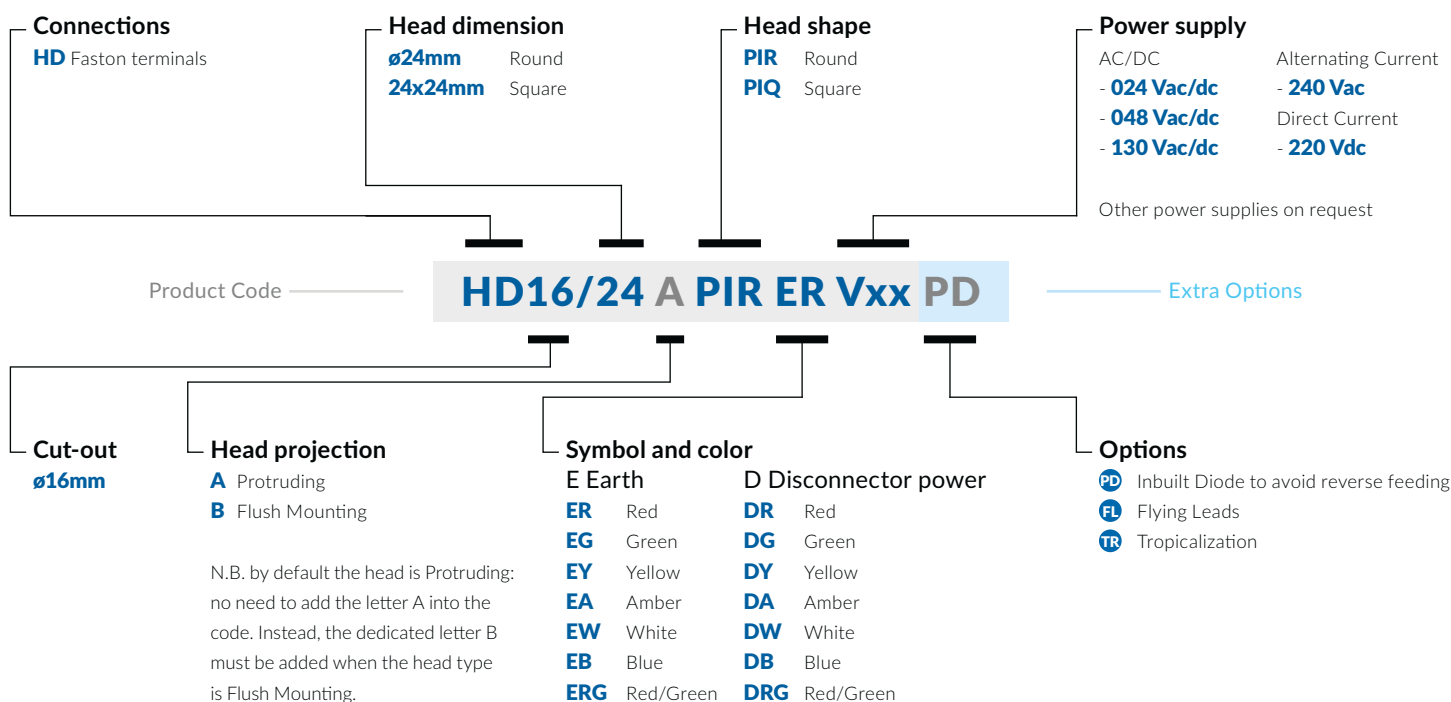
Product diagram Ø16mm Position LED Indicators



Product code structure Ø16mm

Semaphore and Position LED Indicators

Position LED Indicators



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



HD16/24 CR - Faston terminals

HD16/24 PI - Faston terminals

A type
 Protruding
 Head Ø24mm
 Cut-out Ø16mm

B type
 Flush Mounting
 Head Ø27mm
 Cut-out Ø24mm

A type
 Protruding
 Head 24x24mm
 Cut-out Ø16mm

B type
 Flush Mounting
 Head 27x27mm
 Cut-out 24x24mm



a Red
 b Green

HD16/24 CRT RG Vxx

PD FL PC NC TR

HD16/24B CRT RG Vxx

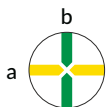
PD FL PC NC TR

HD16/24 CRQ RG Vxx

PD FL PC NC TR

HD16/24B CRQ RG Vxx

PD FL PC NC TR



a Yellow
 b Green

HD16/24 CRT GY Vxx

PD FL PC NC TR

HD16/24B CRT GY Vxx

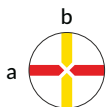
PD FL PC NC TR

HD16/24 CRQ GY Vxx

PD FL PC NC TR

HD16/24B CRQ GY Vxx

PD FL PC NC TR



a Red
 b Green

HD16/24 CRT RG Vxx

PD FL PC NC TR

HD16/24B CRT RG Vxx

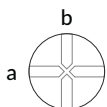
PD FL PC NC TR

HD16/24 CRQ RG Vxx

PD FL PC NC TR

HD16/24B CRQ RG Vxx

PD FL PC NC TR



a White
 b White

HD16/24 CRT WW Vxx

PD FL PC NC TR

HD16/24B CRT WW Vxx

PD FL PC NC TR

HD16/24 CRQ WW Vxx

PD FL PC NC TR

HD16/24B CRQ WW Vxx

PD FL PC NC TR



- Red
- Green
- Yellow
- Amber
- Blue
- White
- Red/Green

HD16/24 PIR ER Vxx
 HD16/24 PIR EG Vxx
 HD16/24 PIR EY Vxx
 HD16/24 PIR EA Vxx
 HD16/24 PIR EB Vxx
 HD16/24 PIR EW Vxx
 HD16/24 PIR ERG Vxx

PD FL TR

HD16/24B PIR ER Vxx
 HD16/24B PIR EG Vxx
 HD16/24B PIR EY Vxx
 HD16/24B PIR EA Vxx
 HD16/24B PIR EB Vxx
 HD16/24B PIR EW Vxx
 HD16/24B PIR ERG Vxx

PD FL TR

HD16/24 PIQ ER Vxx
 HD16/24 PIQ EG Vxx
 HD16/24 PIQ EY Vxx
 HD16/24 PIQ EA Vxx
 HD16/24 PIQ EB Vxx
 HD16/24 PIQ EW Vxx
 HD16/24 PIQ ERG Vxx

PD FL TR

HD16/24B PIQ ER Vxx
 HD16/24B PIQ EG Vxx
 HD16/24B PIQ EY Vxx
 HD16/24B PIQ EA Vxx
 HD16/24B PIQ EB Vxx
 HD16/24B PIQ EW Vxx
 HD16/24B PIQ ERG Vxx

PD FL TR



- Red
- Green
- Yellow
- Amber
- Blue
- White
- Red/Green

HD16/24 PIR DR Vxx
 HD16/24 PIR DG Vxx
 HD16/24 PIR DY Vxx
 HD16/24 PIR DA Vxx
 HD16/24 PIR DB Vxx
 HD16/24 PIR DW Vxx
 HD16/24 PIR DRG Vxx

PD FL TR

HD16/24B PIR DR Vxx
 HD16/24B PIR DG Vxx
 HD16/24B PIR DY Vxx
 HD16/24B PIR DA Vxx
 HD16/24B PIR DB Vxx
 HD16/24B PIR DW Vxx
 HD16/24B PIR DRG Vxx

PD FL TR

HD16/24 PIQ DR Vxx
 HD16/24 PIQ DG Vxx
 HD16/24 PIQ DY Vxx
 HD16/24 PIQ DA Vxx
 HD16/24 PIQ DB Vxx
 HD16/24 PIQ DW Vxx
 HD16/24 PIQ DRG Vxx

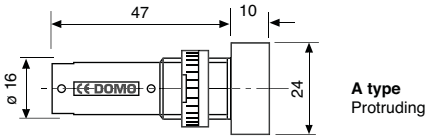
PD FL TR

HD16/24B PIQ DR Vxx
 HD16/24B PIQ DG Vxx
 HD16/24B PIQ DY Vxx
 HD16/24B PIQ DA Vxx
 HD16/24B PIQ DB Vxx
 HD16/24B PIQ DW Vxx
 HD16/24B PIQ DRG Vxx

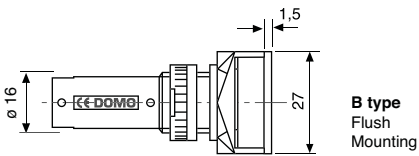
PD FL TR

HD16/24 CR

Dimensions mm 1:2



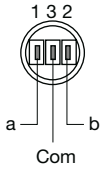
board thickness 10 mm
clamping: threaded nut



board thickness 1 mm
clamping: threaded nut

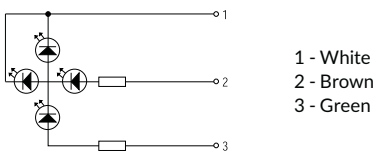
Faston terminals Tabs 2,8 x 0,8mm

Bicolor



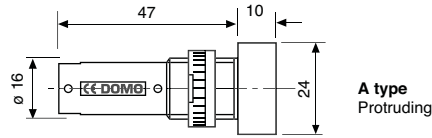
Flying Leads

Bicolor

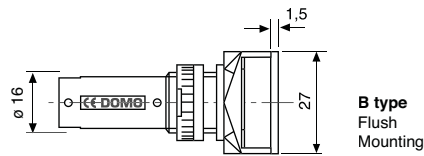


HD16/24 PI

Dimensions mm 1:2



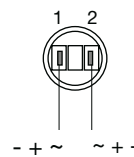
board thickness 10 mm
clamping: threaded nut



board thickness 1 mm
clamping: threaded nut

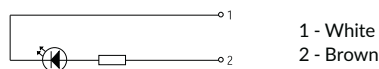
Faston terminals Tabs 2,8 x 0,8mm

Monocolor

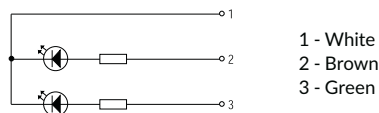


Flying Leads

Monocolor

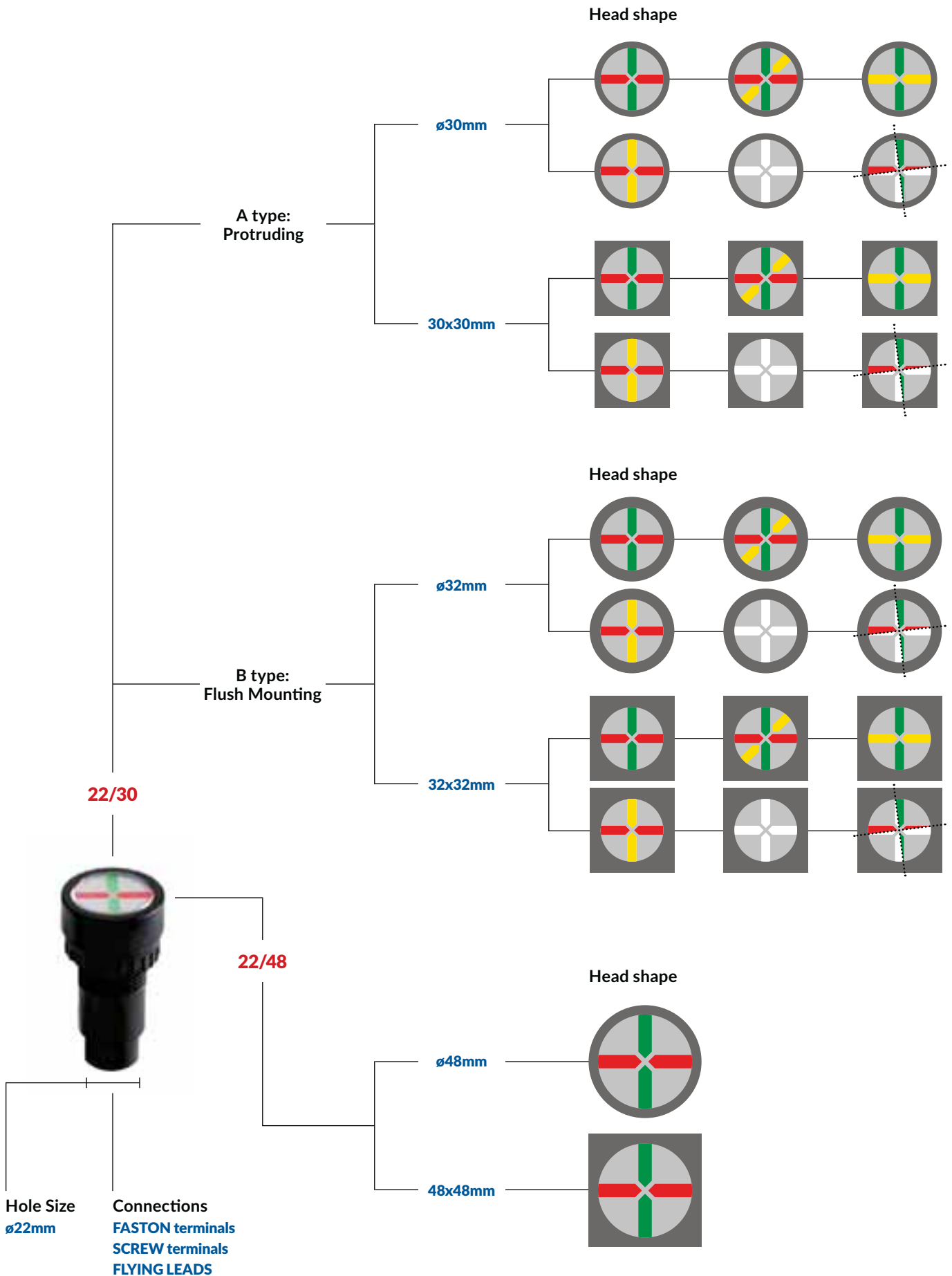


Bicolor





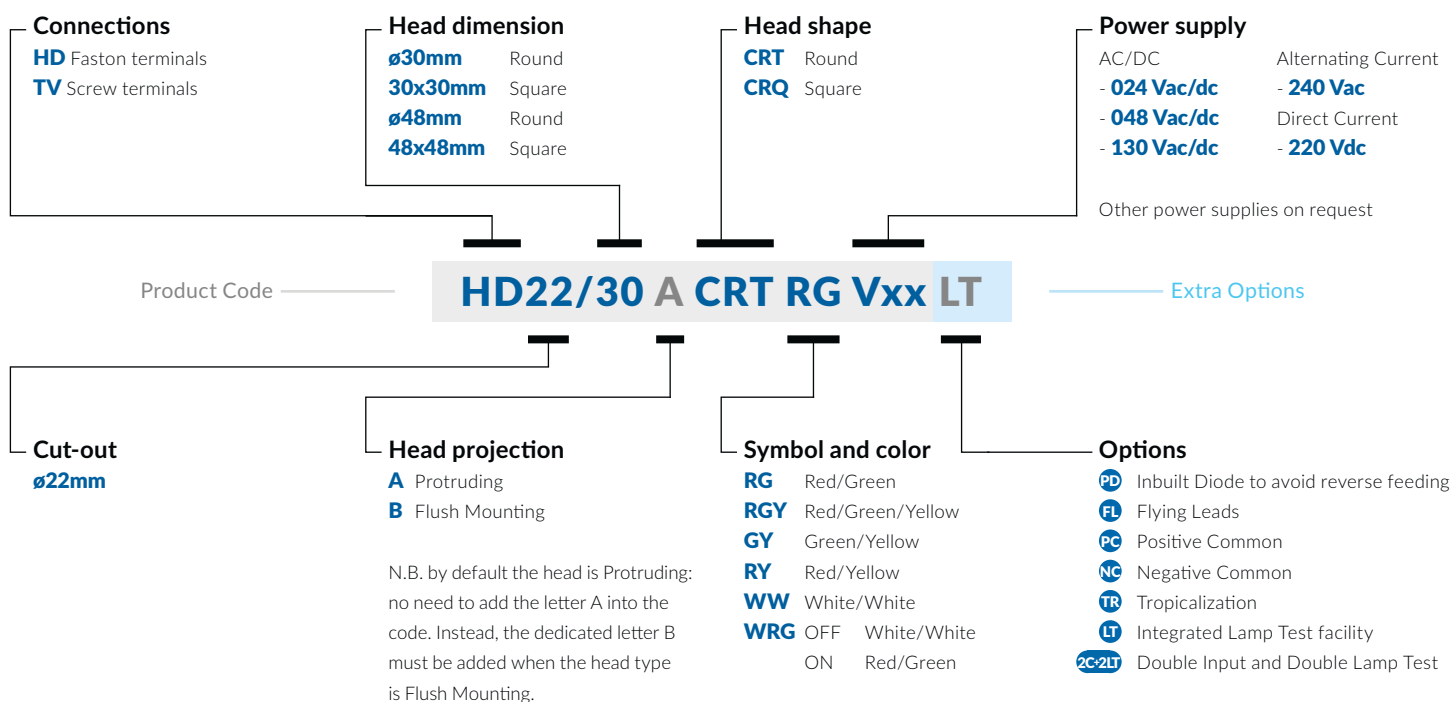
Product diagram Ø22mm Semaphore LED Indicators



Product code structure Ø22mm

Semaphore LED Indicators

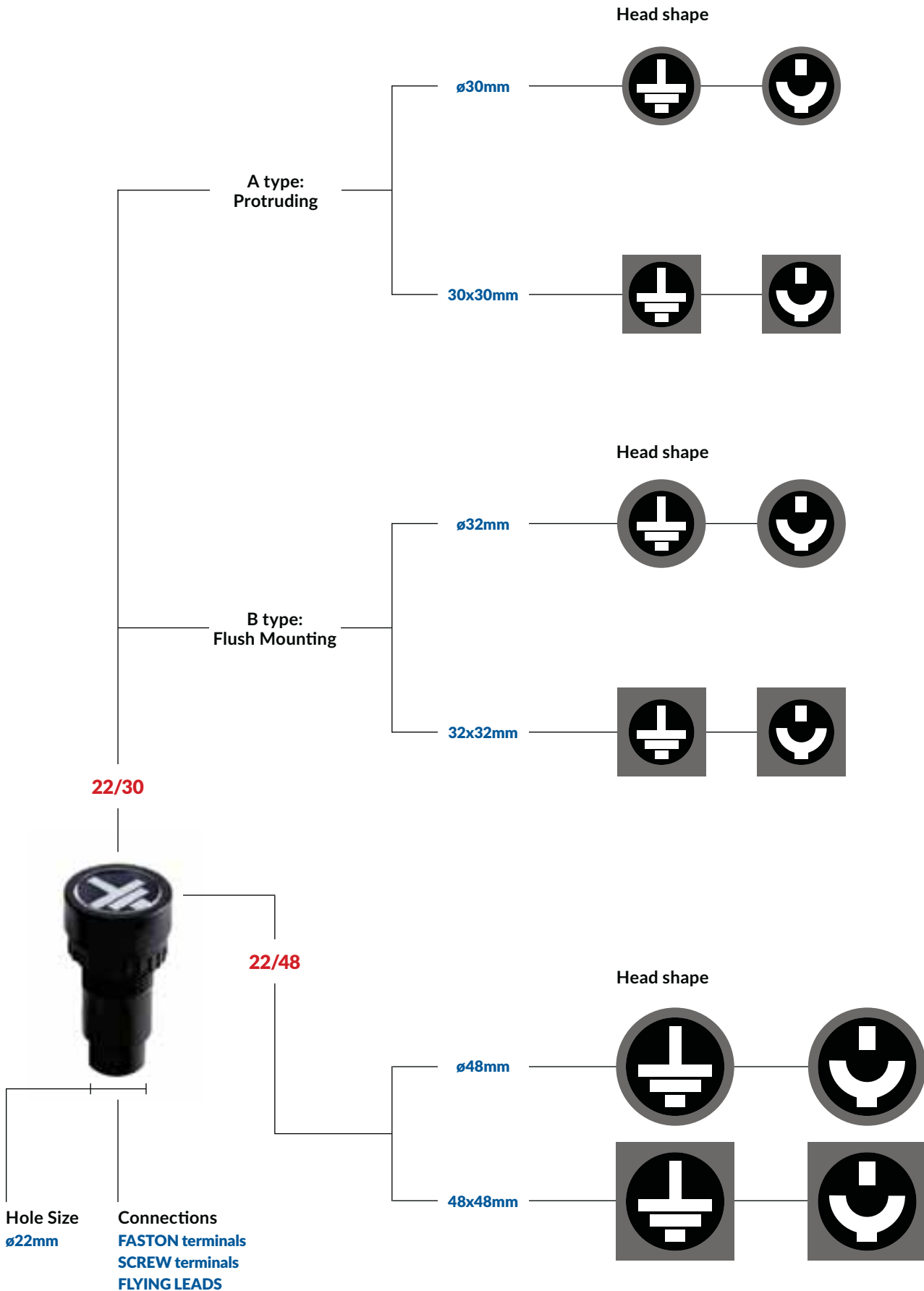
Semaphore and Position LED Indicators



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



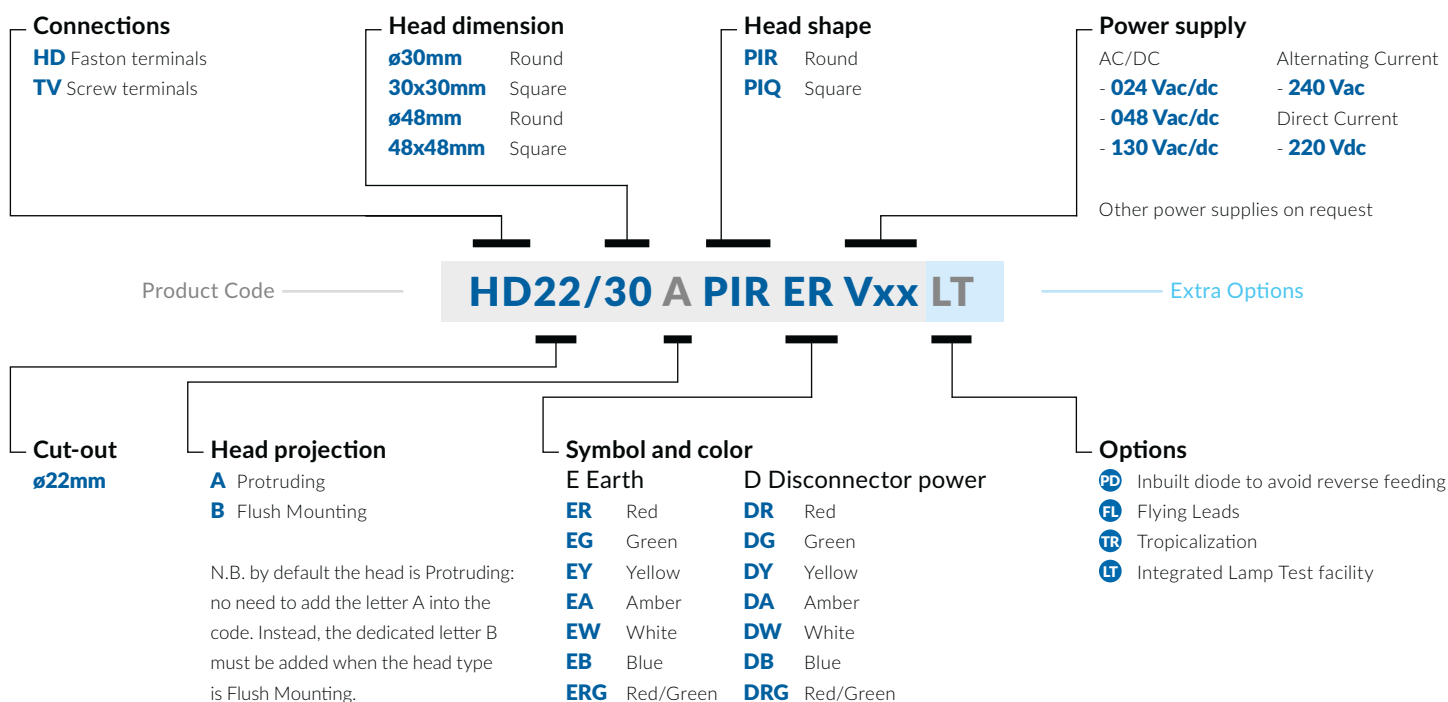
Product diagram Ø22mm Position LED Indicators



Product code structure Ø22mm

Semaphore and Position LED Indicators

Position LED Indicators



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



A type
Protruding
Head Ø30mm
Cut-out Ø22mm

B type
Flush Mounting
Head Ø32mm
Cut-out Ø30mm

A type
Protruding
Head 30x30mm
Cut-out Ø22mm

B type
Flush Mounting
Head 32x32mm
Cut-out 30x30mm



a Red
b Green

HD22/30 CRT RG Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRT RG Vxx

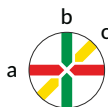
PD FL PC NC TR LT 2C-2LT

HD22/30 CRQ RG Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRQ RG Vxx

PD FL PC NC TR LT 2C-2LT



a Red
b Green
c Yellow

HD22/30 CRT RGY Vxx

PD FL PC NC TR LT

HD22/30B CRT RGY Vxx

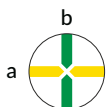
PD FL PC NC TR LT

HD22/30 CRQ RGY Vxx

PD FL PC NC TR LT

HD22/30B CRQ RGY Vxx

PD FL PC NC TR LT



a Yellow
b Green

HD22/30 CRT GY Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRT GY Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30 CRQ GY Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRQ GY Vxx

PD FL PC NC TR LT 2C-2LT



a Red
b Yellow

HD22/30 CRT RY Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRT RY Vxx

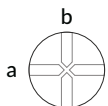
PD FL PC NC TR LT 2C-2LT

HD22/30 CRQ RY Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRQ RY Vxx

PD FL PC NC TR LT 2C-2LT



a White
b White

HD22/30 CRT WW Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRT WW Vxx

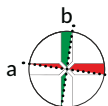
PD FL PC NC TR LT 2C-2LT

HD22/30 CRQ WW Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRQ WW Vxx

PD FL PC NC TR LT 2C-2LT



a White/Red
b White/Green

HD22/30 CRT WRG Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRT WRG Vxx

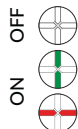
PD FL PC NC TR LT 2C-2LT

HD22/30 CRQ WRG Vxx

PD FL PC NC TR LT 2C-2LT

HD22/30B CRQ WRG Vxx

PD FL PC NC TR LT 2C-2LT



A type
Protruding
Head Ø30mm
Cut-out Ø22mm



B type
Flush Mounting
Head Ø32mm
Cut-out Ø30mm



A type
Protruding
Head 30x30mm
Cut-out Ø22mm



B type
Flush Mounting
Head 32x32mm
Cut-out 30x30mm



● Red	HD22/30 PIR ER Vxx	HD22/30B PIR ER Vxx	HD22/30 PIQ ER Vxx	HD22/30B PIQ ER Vxx
● Green	HD22/30 PIR EG Vxx	HD22/30B PIR EG Vxx	HD22/30 PIQ EG Vxx	HD22/30B PIQ EG Vxx
● Yellow	HD22/30 PIR EY Vxx	HD22/30B PIR EY Vxx	HD22/30 PIQ EY Vxx	HD22/30B PIQ EY Vxx
● Amber	HD22/30 PIR EA Vxx	HD22/30B PIR EA Vxx	HD22/30 PIQ EA Vxx	HD22/30B PIQ EA Vxx
● Blue	HD22/30 PIR EB Vxx	HD22/30B PIR EB Vxx	HD22/30 PIQ EB Vxx	HD22/30B PIQ EB Vxx
○ White	HD22/30 PIR EW Vxx	HD22/30B PIR EW Vxx	HD22/30 PIQ EW Vxx	HD22/30B PIQ EW Vxx
● Red/Green	HD22/30 PIR ERG Vxx	HD22/30B PIR ERG Vxx	HD22/30 PIQ ERG Vxx	HD22/30B PIQ ERG Vxx
	PD FL TR LT	PD FL TR LT	PD FL TR LT	PD FL TR LT

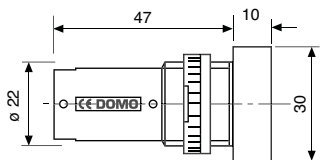


● Red	HD22/30 PIR DR Vxx	HD22/30B PIR DR Vxx	HD22/30 PIQ DR Vxx	HD22/30B PIQ DR Vxx
● Green	HD22/30 PIR DG Vxx	HD22/30B PIR DG Vxx	HD22/30 PIQ DG Vxx	HD22/30B PIQ DG Vxx
● Yellow	HD22/30 PIR DY Vxx	HD22/30B PIR DY Vxx	HD22/30 PIQ DY Vxx	HD22/30B PIQ DY Vxx
● Amber	HD22/30 PIR DA Vxx	HD22/30B PIR DA Vxx	HD22/30 PIQ DA Vxx	HD22/30B PIQ DA Vxx
● Blue	HD22/30 PIR DB Vxx	HD22/30B PIR DB Vxx	HD22/30 PIQ DB Vxx	HD22/30B PIQ DB Vxx
○ White	HD22/30 PIR DW Vxx	HD22/30B PIR DW Vxx	HD22/30 PIQ DW Vxx	HD22/30B PIQ DW Vxx
● Red/Green	HD22/30 PIR DRG Vxx	HD22/30B PIR DRG Vxx	HD22/30 PIQ DRG Vxx	HD22/30B PIQ DRG Vxx
	PD FL TR LT	PD FL TR LT	PD FL TR LT	PD FL TR LT



HD22/30 CR

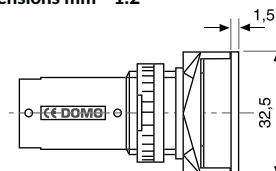
Dimensions mm 1:2



A type
Protruding

board thickness 10 mm
clamping: threaded nut

Dimensions mm 1:2

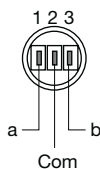


B type
Flush
Mounting

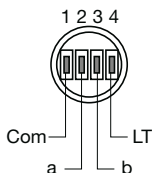
board thickness 1 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

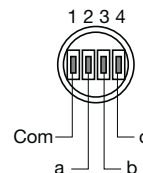
Bicolor



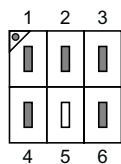
Bicolor + Lamp Test (LT)



Tricolor

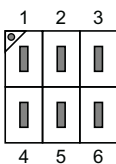


Tricolor + Lamp Test (LT)



- 1 - Com
- 2 - Red
- 3 - Green
- 4 - Yellow
- 5
- 6 - LT

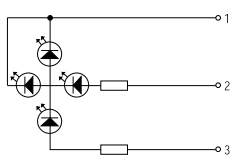
Double Input (2C) + Double Lamp Test (2LT)



- 1 - Com
- 2 - Red
- 3 - Green
- 4 - Com
- 5 - LT
- 6 - LT

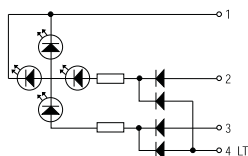
Flying Leads

Bicolor



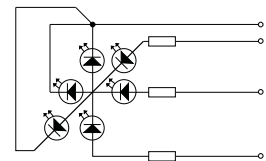
- 1 - White
- 2 - Brown
- 3 - Green

Bicolor + Lamp Test (LT)



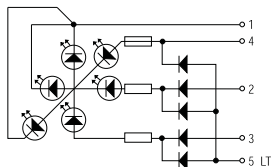
- 1 - White
- 2 - Brown
- 3 - Green
- 4 - Yellow

Tricolor



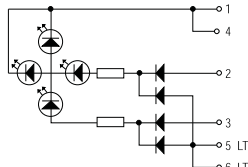
- 1 - White
- 2 - Brown
- 3 - Green
- 4 - Yellow

Tricolor + Lamp Test (LT)



- 1 - White
- 2 - Brown
- 3 - Green
- 4 - Yellow
- 5 - Grey

Double Input (2C) + Double Lamp Test (2LT)



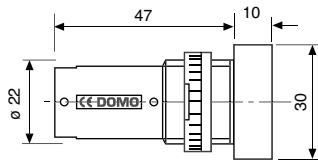
- 1 - White
- 2 - Brown
- 3 - Green
- 4 - Yellow
- 5 - Grey
- 6 - Pink

HD22/30 connections - Faston terminals

Semaphore and Position LED Indicators

HD22/30 PI

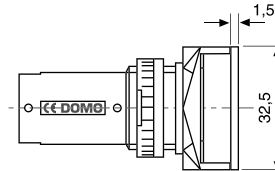
Dimensions mm 1:2



A type
Protruding

board thickness 10 mm
clamping: threaded nut

Dimensions mm 1:2

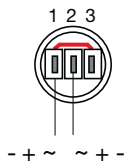


B type
Flush
Mounting

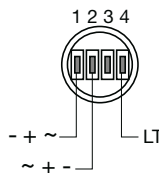
board thickness 1 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

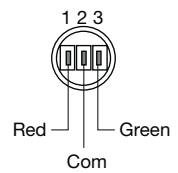
Monocolor



Monocolor + Lamp Test (LT)

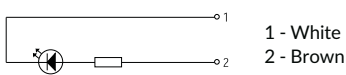


Bicolor

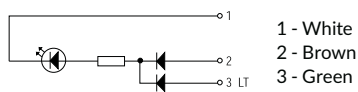


Flying Leads

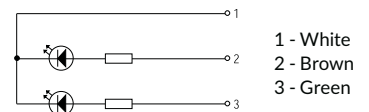
Monocolor



Monocolor + Lamp Test (LT)



Bicolor



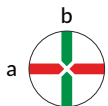


A type
Protruding
Head Ø30mm
Cut-out Ø22mm

B type
Flush Mounting
Head Ø32mm
Cut-out Ø30mm

A type
Protruding
Head 30x30mm
Cut-out Ø22mm

B type
Flush Mounting
Head 32x32mm
Cut-out 30x30mm



a Red
b Green

TV22/30 CRT RG Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRT RG Vxx

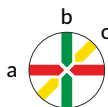
PD PC NC TR LT 2C-2LT

TV22/30 CRQ RG Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRQ RG Vxx

PD PC NC TR LT 2C-2LT



a Red
b Green
c Yellow

TV22/30 CRT RGY Vxx

PD PC NC TR LT

TV22/30B CRT RGY Vxx

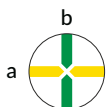
PD PC NC TR LT

TV22/30 CRQ RGY Vxx

PD PC NC TR LT

TV22/30B CRQ RGY Vxx

PD PC NC TR LT



a Yellow
b Green

TV22/30 CRT GY Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRT GY Vxx

PD PC NC TR LT 2C-2LT

TV22/30 CRQ GY Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRQ GY Vxx

PD PC NC TR LT 2C-2LT



a Red
b Yellow

TV22/30 CRT RY Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRT RY Vxx

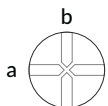
PD PC NC TR LT 2C-2LT

TV22/30 CRQ RY Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRQ RY Vxx

PD PC NC TR LT 2C-2LT



a White
b White

TV22/30 CRT WW Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRT WW Vxx

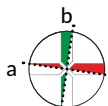
PD PC NC TR LT 2C-2LT

TV22/30 CRQ WW Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRQ WW Vxx

PD PC NC TR LT 2C-2LT



a White/Red
b White/Green

TV22/30 CRT WRG Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRT WRG Vxx

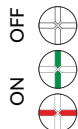
PD PC NC TR LT 2C-2LT

TV22/30 CRQ WRG Vxx

PD PC NC TR LT 2C-2LT

TV22/30B CRQ WRG Vxx

PD PC NC TR LT 2C-2LT



A type
Protruding
Head Ø30mm
Cut-out Ø22mm



B type
Flush Mounting
Head Ø32mm
Cut-out Ø30mm



A type
Protruding
Head 30x30mm
Cut-out Ø22mm



B type
Flush Mounting
Head 32x32mm
Cut-out 30x30mm



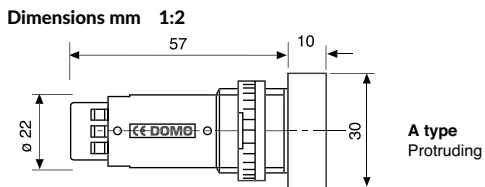
● Red	TV22/30 PIR ER Vxx	TV22/30B PIR ER Vxx	TV22/30 PIQ ER Vxx	TV22/30B PIQ ER Vxx
● Green	TV22/30 PIR EG Vxx	TV22/30B PIR EG Vxx	TV22/30 PIQ EG Vxx	TV22/30B PIQ EG Vxx
● Yellow	TV22/30 PIR EY Vxx	TV22/30B PIR EY Vxx	TV22/30 PIQ EY Vxx	TV22/30B PIQ EY Vxx
● Amber	TV22/30 PIR EA Vxx	TV22/30B PIR EA Vxx	TV22/30 PIQ EA Vxx	TV22/30B PIQ EA Vxx
● Blue	TV22/30 PIR EB Vxx	TV22/30B PIR EB Vxx	TV22/30 PIQ EB Vxx	TV22/30B PIQ EB Vxx
○ White	TV22/30 PIR EW Vxx	TV22/30B PIR EW Vxx	TV22/30 PIQ EW Vxx	TV22/30B PIQ EW Vxx
● Red/Green	TV22/30 PIR ERG Vxx	TV22/30B PIR ERG Vxx	TV22/30 PIQ ERG Vxx	TV22/30B PIQ ERG Vxx
	PD TR LT	PD TR LT	PD TR LT	PD TR LT



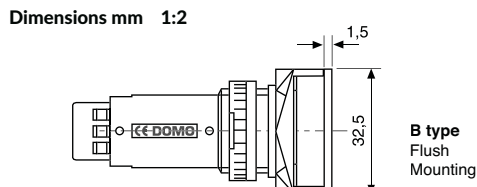
● Red	TV22/30 PIR DR Vxx	TV22/30B PIR DR Vxx	TV22/30 PIQ DR Vxx	TV22/30B PIQ DR Vxx
● Green	TV22/30 PIR DG Vxx	TV22/30B PIR DG Vxx	TV22/30 PIQ DG Vxx	TV22/30B PIQ DG Vxx
● Yellow	TV22/30 PIR DY Vxx	TV22/30B PIR DY Vxx	TV22/30 PIQ DY Vxx	TV22/30B PIQ DY Vxx
● Amber	TV22/30 PIR DA Vxx	TV22/30B PIR DA Vxx	TV22/30 PIQ DA Vxx	TV22/30B PIQ DA Vxx
● Blue	TV22/30 PIR DB Vxx	TV22/30B PIR DB Vxx	TV22/30 PIQ DB Vxx	TV22/30B PIQ DB Vxx
○ White	TV22/30 PIR DW Vxx	TV22/30B PIR DW Vxx	TV22/30 PIQ DW Vxx	TV22/30B PIQ DW Vxx
● Red/Green	TV22/30 PIR DRG Vxx	TV22/30B PIR DRG Vxx	TV22/30 PIQ DRG Vxx	TV22/30B PIQ DRG Vxx
	PD TR LT	PD TR LT	PD TR LT	PD TR LT



TV22/30 CR



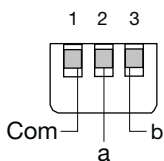
board thickness 10 mm
clamping: threaded nut



board thickness 1 mm
clamping: threaded nut

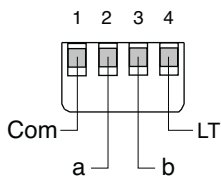
Screw terminal 14 AWG - 2,5mmq

Bicolor

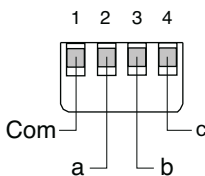


Screw terminal 16 AWG - 0,75 ÷ 1,0mmq

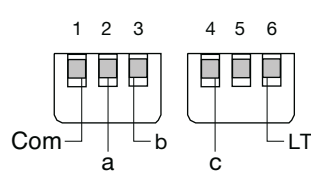
Bicolor + Lamp Test (LT)



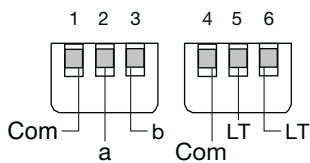
Tricolor



Tricolor + Lamp Test (LT)



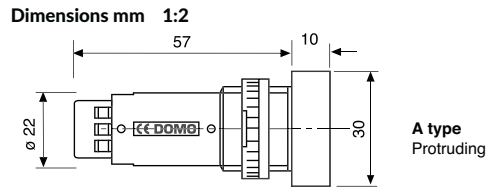
Double Input (2C) + Double Lamp Test (2LT)



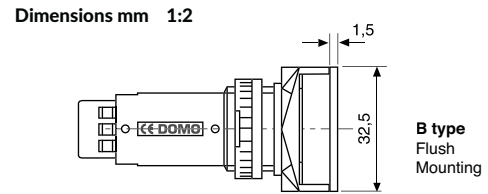
TV22/30 connections - Screw terminals

Semaphore and Position LED Indicators

TV22/30 PI



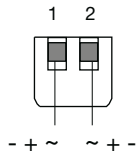
board thickness 10 mm
clamping: threaded nut



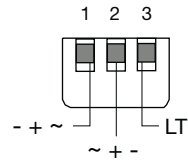
board thickness 1 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

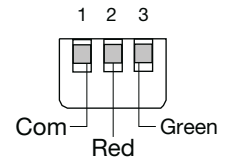
Monocolor



Monocolor + Lamp Test (LT)



Bicolor

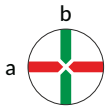




Protruding
Head Ø48mm
Cut-out Ø22mm



Protruding
Head 48x48mm
Cut-out Ø22mm



a Red
b Green

TV22/48 CRT RG Vxx

PD FL PC NC TR LT

TV22/48 CRQ RG Vxx

PD FL PC NC TR LT

TV22/48 PI - Screw terminals

Semaphore and Position LED Indicators

Protruding
Head Ø48mm
Cut-out Ø22mm



Protruding
Head 48x48mm
Cut-out Ø22mm



- Red
- Green
- Yellow
- Amber
- Blue
- White
- ● Red/Green

TV22/48 PIR ER Vxx
TV22/48 PIR EG Vxx
TV22/48 PIR EY Vxx
TV22/48 PIR EA Vxx
TV22/48 PIR EB Vxx
TV22/48 PIR EW Vxx
TV22/48 PIR ERG Vxx

PD FL TR LT

TV22/48 PIQ ER Vxx
TV22/48 PIQ EG Vxx
TV22/48 PIQ EY Vxx
TV22/48 PIQ EA Vxx
TV22/48 PIQ EB Vxx
TV22/48 PIQ EW Vxx
TV22/48 PIQ ERG Vxx

PD FL TR LT



- Red
- Green
- Yellow
- Amber
- Blue
- White
- ● Red/Green

TV22/48 PIR DR Vxx
TV22/48 PIR DG Vxx
TV22/48 PIR DY Vxx
TV22/48 PIR DA Vxx
TV22/48 PIR DB Vxx
TV22/48 PIR DW Vxx
TV22/48 PIR DRG Vxx

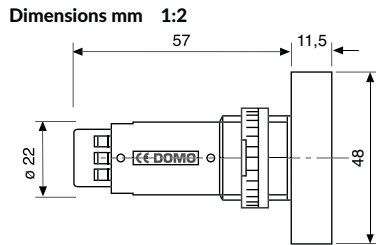
PD FL TR LT

TV22/48 PIQ DR Vxx
TV22/48 PIQ DG Vxx
TV22/48 PIQ DY Vxx
TV22/48 PIQ DA Vxx
TV22/48 PIQ DB Vxx
TV22/48 PIQ DW Vxx
TV22/48 PIQ DRG Vxx

PD FL TR LT



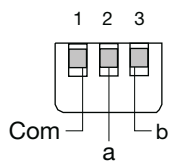
TV22/48 CR



board thickness 10 mm
clamping: threaded nut

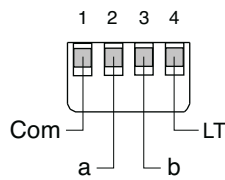
Screw terminal 14 AWG - 2,5mmq

Bicolor



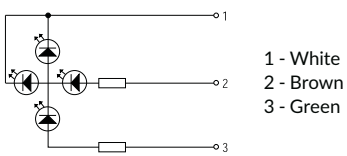
Screw terminal 16 AWG - 0,75 ÷ 1,0mmq

Bicolor + Lamp Test (LT)



Flying Leads

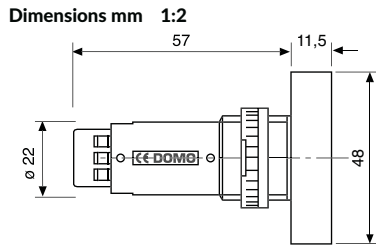
Bicolor



TV22/48 connections - Screw terminals

Semaphore and Position LED Indicators

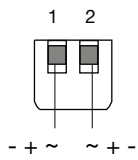
TV22/48 PI



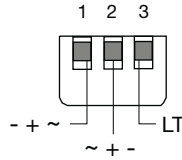
board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

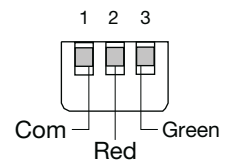
Monocolor



Monocolor + Lamp Test (LT)

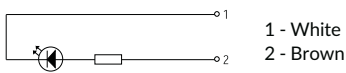


Bicolor

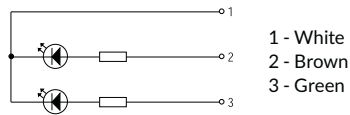


Flying Leads

Monocolor



Bicolor





LED Indicators

MultiLED display
Indicators

MultiLED display Indicators

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **22/30 ML IP40**
22/30 MLH IP65
22/48 ML IP54

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

LED consumption: **15mA**

Weight: **20g (22/30 ML - 22/30 MLH) - 35g (22/48 ML)**

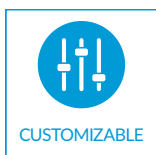
Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Tropicalization treatment inside.



Customer can choose the LED colors, their arrangement and the text next to the LEDs. Easy label replacement, freely exchangeable at any time.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 9mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Three Phase - 10mA

380-400 Vac

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

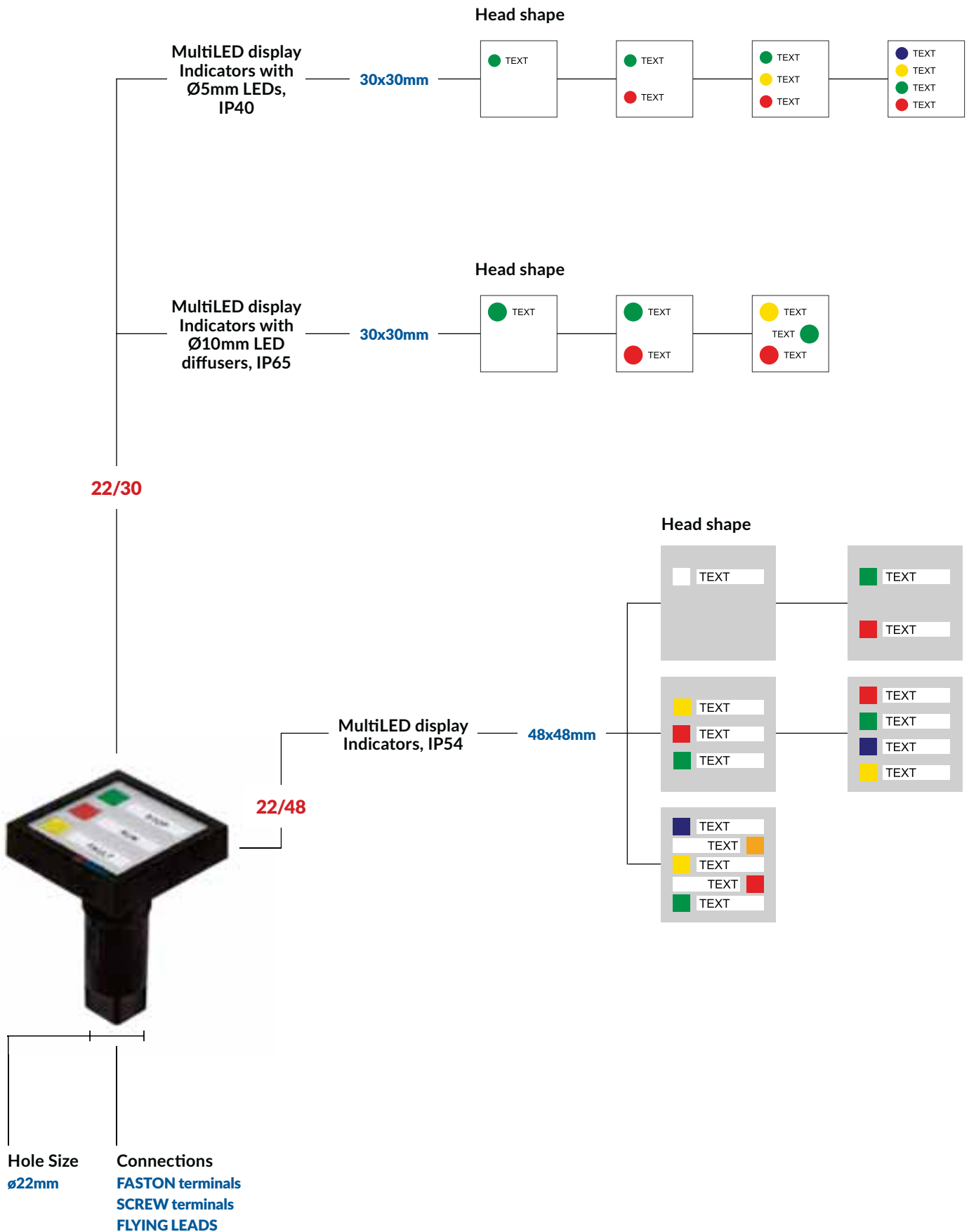
IEC CEI 20-22



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.



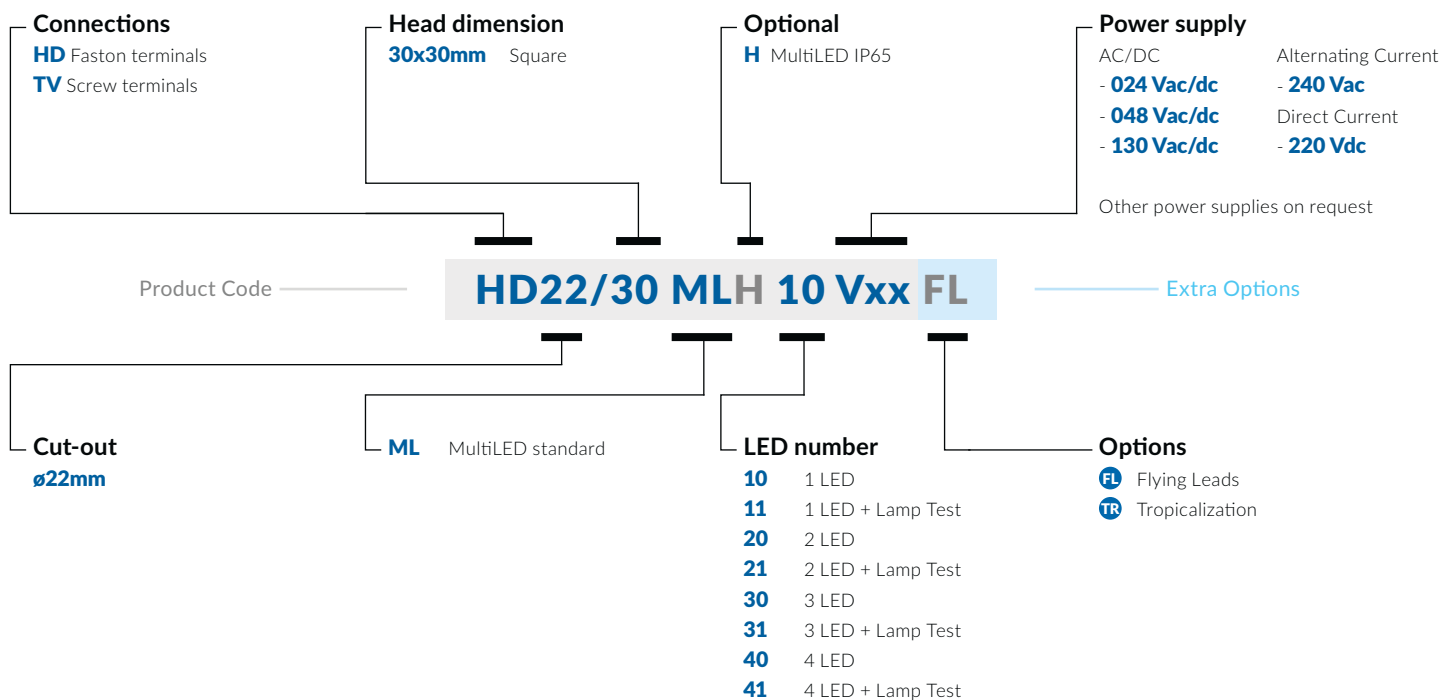
Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm, Screw terminals or Flying Leads.



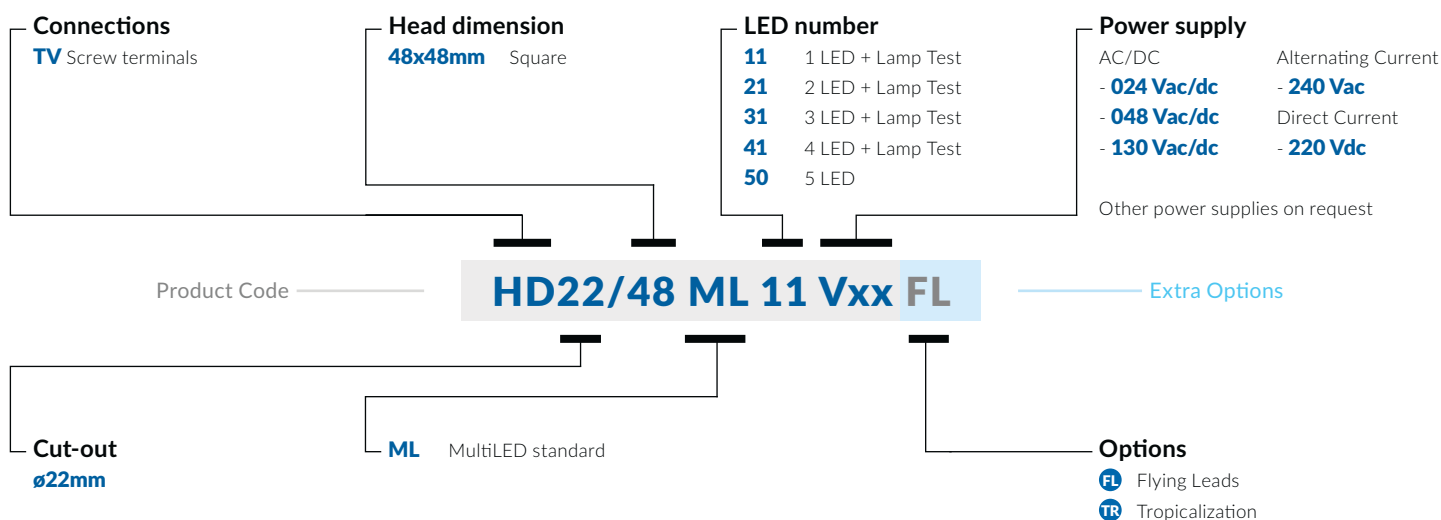
Product code structure Ø22mm

MultiLED display Indicators

MultiLED display Indicators 22/30



MultiLED display Indicators 22/48





HD22/30 ML - Faston terminals

Ø5mm LEDs, IP40

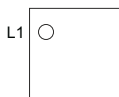
HD22/30 ML
Head Ø30mm
Cut-out Ø22
LEDs: Ø5mm



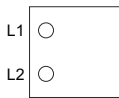
LEDs colors available

- Red
- Green
- Yellow
- Amber
- Blue
- White

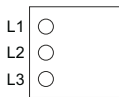
Standard	With Lamp Test (LT)
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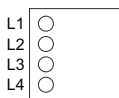
Standard	HD22/30 ML10		HD22/30 ML11	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____



Standard	HD22/30 ML20		HD22/30 ML21	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____
	L2 _____	_____	L2 _____	_____



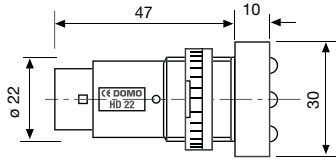
Standard	HD22/30 ML30		HD22/30 ML31	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____
	L2 _____	_____	L2 _____	_____
	L3 _____	_____	L3 _____	_____



Standard	HD22/30 ML40		HD22/30 ML41	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____
	L2 _____	_____	L2 _____	_____
	L3 _____	_____	L3 _____	_____
	L4 _____	_____	L4 _____	_____

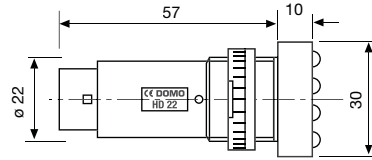
HD22/30 ML

Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

Dimensions mm 1:2

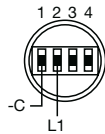


board thickness 1 mm
clamping: threaded nut

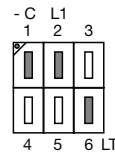
Faston terminals Tabs 2,8 x 0,8mm



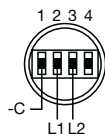
Standard



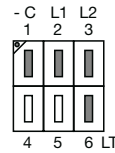
Standard + Lamp Test (LT)



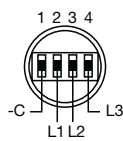
Standard



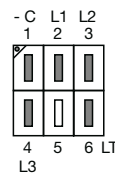
Standard + Lamp Test (LT)



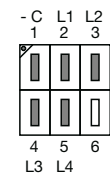
Standard



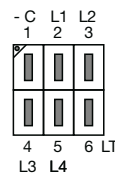
Standard + Lamp Test (LT)



Standard



Standard + Lamp Test (LT)





TV22/30 ML - Screw terminals

Ø5mm LEDs, IP40

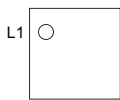
TV22/30 ML
Head Ø30mm
Cut-out Ø22
LEDs: Ø5mm



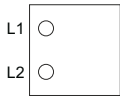
LEDs colors available

- Red
- Green
- Yellow
- Amber
- Blue
- White

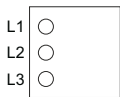
Standard	With Lamp Test (LT)
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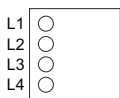
Standard	TV22/30 ML10	TV22/30 ML11
Supply Voltage	V _____	V _____
	LEDs colors _____	LEDs colors _____
	Text _____	Text _____
	L1 _____	L1 _____
	FL TR	FL TR



Standard	TV22/30 ML20	TV22/30 ML21
Supply Voltage	V _____	V _____
	LEDs colors _____	LEDs colors _____
	Text _____	Text _____
	L1 _____	L1 _____
	L2 _____	L2 _____
	FL TR	FL TR



Standard	TV22/30 ML30	TV22/30 ML31
Supply Voltage	V _____	V _____
	LEDs colors _____	LEDs colors _____
	Text _____	Text _____
	L1 _____	L1 _____
	L2 _____	L2 _____
	L3 _____	L3 _____
	FL TR	FL TR



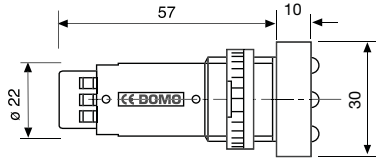
Standard	TV22/30 ML40	TV22/30 ML41
Supply Voltage	V _____	V _____
	LEDs colors _____	LEDs colors _____
	Text _____	Text _____
	L1 _____	L1 _____
	L2 _____	L2 _____
	L3 _____	L3 _____
	L4 _____	L4 _____
	FL TR	FL TR

TV22/30 ML connections - Screw terminals

MultiLED display Indicators

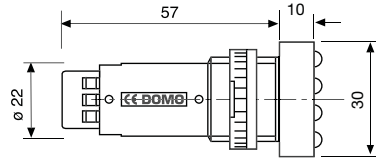
TV22/30 ML

Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

Dimensions mm 1:2

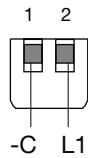


board thickness 1 mm
clamping: threaded nut

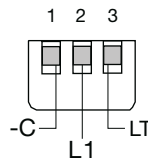
Screw terminal 14 AWG - 2,5mmq



Standard

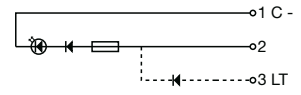


Standard + Lamp Test (LT)



Flying Leads

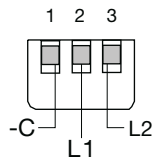
Standard / Standard + Lamp Test (LT)



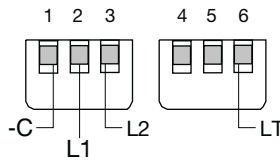
Screw terminal 16 AWG - 0,75-0,1mmq



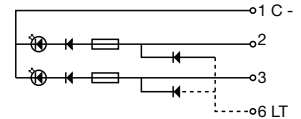
Standard



Standard + Lamp Test (LT)



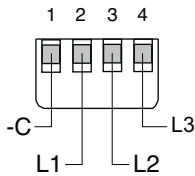
Standard / Standard + Lamp Test (LT)



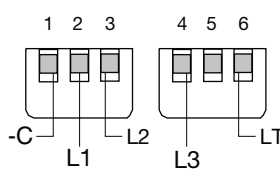
Screw terminal 16 AWG - 0,75-0,1mmq



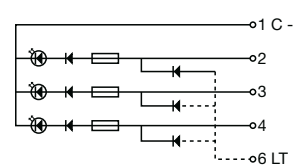
Standard



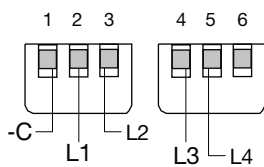
Standard + Lamp Test (LT)



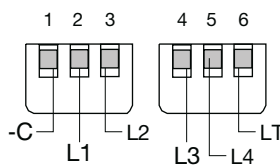
Standard / Standard + Lamp Test (LT)



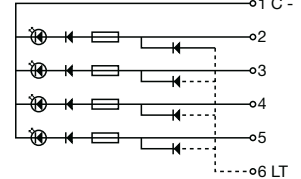
Standard



Standard + Lamp Test (LT)



Standard / Standard + Lamp Test (LT)





HD22/30 MLH - Faston terminals

TV22/30 MLH - Screw terminals

Ø10mm LEDs, IP65

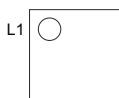
LEDs colors available

- Red
- Green
- Yellow
- Amber
- Blue
- White

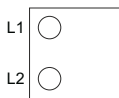
HD22/30 MLH
 Head Ø30mm
 Cut-out Ø22
 LED diffusers: Ø10mm



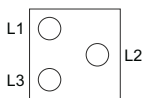
TV22/30 MLH
 Head Ø30mm
 Cut-out Ø22
 LED diffusers: Ø10mm



Standard	HD22/30 MLH10	TV22/30 MLH10
Supply Voltage	V _____	V _____
LEDs colors	_____	_____
Text	_____	_____
L1	_____	_____
	TR	FL TR



Standard	HD22/30 MLH20	TV22/30 MLH20
Supply Voltage	V _____	V _____
LEDs colors	_____	_____
Text	_____	_____
L1	_____	_____
L2	_____	_____
	TR	FL TR



Standard	HD22/30 MLH20	TV22/30 MLH20
Supply Voltage	V _____	V _____
LEDs colors	_____	_____
Text	_____	_____
L1	_____	_____
L2	_____	_____
L3	_____	_____
	TR	FL TR

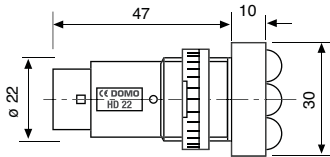
HD22/30 MLH connections - Faston terminals

MultiLED display Indicators

TV22/30 MLH connections - Screw terminals

HD22/30 MLH

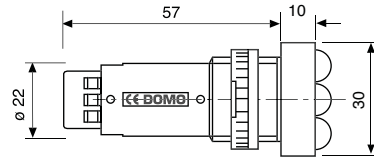
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/30 MLH

Dimensions mm 1:2

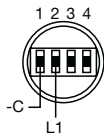


board thickness 10 mm
clamping: threaded nut

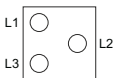
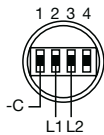
Faston terminals Tabs 2,8 x 0,8mm



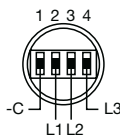
Standard



Standard

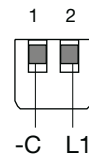


Standard

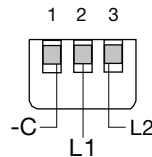


Screw terminal 14 AWG - 2,5mmq

Standard

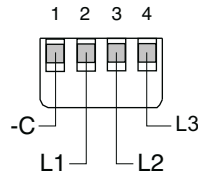


Standard



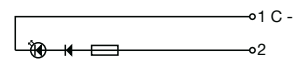
Screw terminal 16 AWG - 0,75-0,1mmq

Standard



Flying Leads

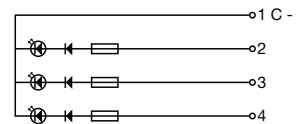
Standard



Standard



Standard





HD22/48 ML - Faston terminals

TV22/48 ML - Screw terminals

IP54



HD 22/48
Head Ø48mm
Cut-out Ø22
LED diffusers:
8x8mm



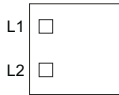
TV 22/48
Head Ø48mm
Cut-out Ø22
LED diffusers:
8x8mm

LEDs colors available

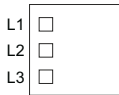
- Red
- Green
- Yellow
- Amber
- Blue
- White



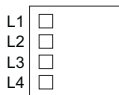
Standard	HD22/48 MLH11		TV22/48 MLH11	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____
	TR		FL TR	



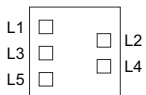
Standard	HD22/48 MLH21		TV22/48 MLH21	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____
	L2 _____	_____	L2 _____	_____
	TR		FL TR	



Standard	HD22/48 MLH31		TV22/48 MLH31	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____
	L2 _____	_____	L2 _____	_____
	L3 _____	_____	L3 _____	_____
	TR		FL TR	



Standard	HD22/48 MLH41		TV22/48 MLH41	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____
	L2 _____	_____	L2 _____	_____
	L3 _____	_____	L3 _____	_____
	L4 _____	_____	L4 _____	_____
	TR		FL TR	



Standard	HD22/48 MLH50		TV22/48 MLH50	
Supply Voltage	V _____		V _____	
	LEDs colors	Text	LEDs colors	Text
	L1 _____	_____	L1 _____	_____
	L2 _____	_____	L2 _____	_____
	L3 _____	_____	L3 _____	_____
	L4 _____	_____	L4 _____	_____
	L5 _____	_____	L5 _____	_____
	TR		FL TR	

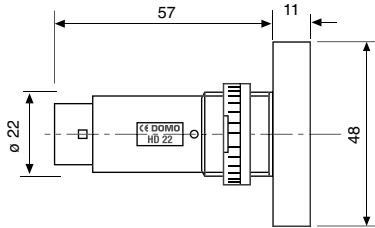
HD22/48 ML connections - Faston terminals

MultiLED display Indicators

TV22/48 ML connections - Screw terminals

HD22/48 ML

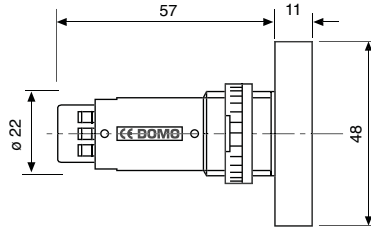
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/48 ML

Dimensions mm 1:2

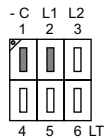


board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

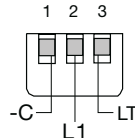


Standard



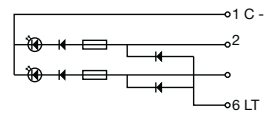
Screw terminal 14 AWG - 2,5mmq

Standard

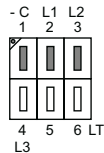


Flying Leads

Standard

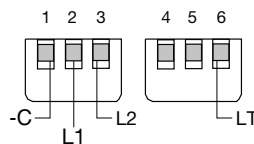


Standard

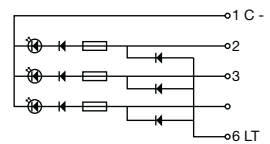


Screw terminal 16 AWG - 0,75-0,1mmq

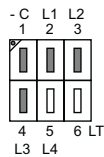
Standard



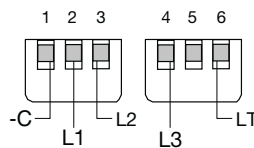
Standard



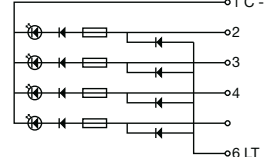
Standard



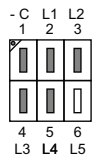
Standard



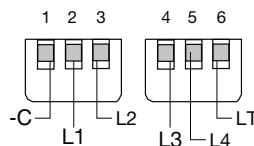
Standard



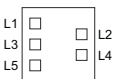
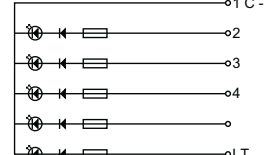
Standard



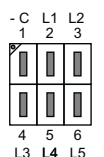
Standard



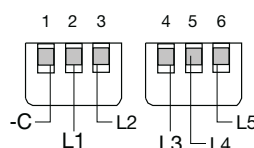
Standard



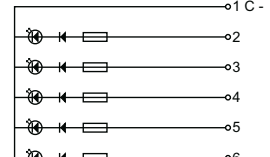
Standard



Standard



Standard





TV22/30 ML30 400 - Screw terminals

TV22/30 MLH30 400 - Screw terminals

TV22/48 ML30 400 - Screw terminals

TV22/30 ML30 400
Head Ø30mm
Cut-out Ø22
LEDs: Ø5mm



IP40

TV22/30 MLH30 400
Head Ø30mm
Cut-out Ø22
LED diffusers: Ø10mm

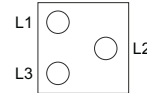
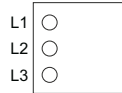


IP65

TV 22/48 ML30 400
Head Ø48mm
Cut-out Ø22
LED diffusers: 8x8mm



IP54



Standard

Supply Voltage

LEDs colors

L1 ● Red

L2 ● Red

L3 ● Red

TV22/30 ML30 400

V 400
Text

FL TR

TV22/30 MLH30 400

V 400
Text

FL TR

TV22/48 ML30 400

V 400
Text

FL TR

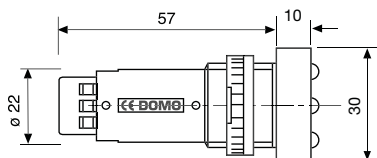
TV22/30 ML connections - Screw terminals

TV22/30 MLH connections - Screw terminals

TV22/48 ML connections - Screw terminals

TV22/30 ML

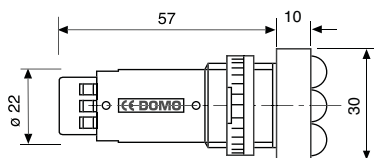
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/30 MLH

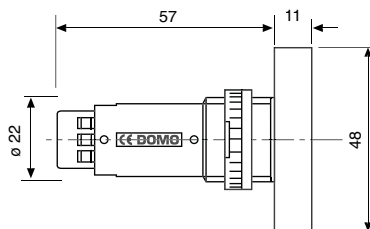
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/48 ML

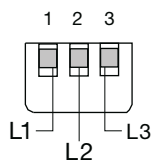
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

Standard





LED Indicators

Extra bright
LED Indicators

Extra bright LED Indicators IP65

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP65**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

LED consumption: **15mA**

Weight: **10g (16/18) - 13g (16/24) - 20g (22/30)**

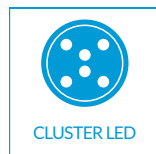
Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Available with inbuilt diode (PD) to avoid reverse feeding and Tropicalization treatment.



Extra bright visibility even with sunlight thanks to the powerful Cluster LED. High vandal resistance

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

IEC CEI 20-22



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.



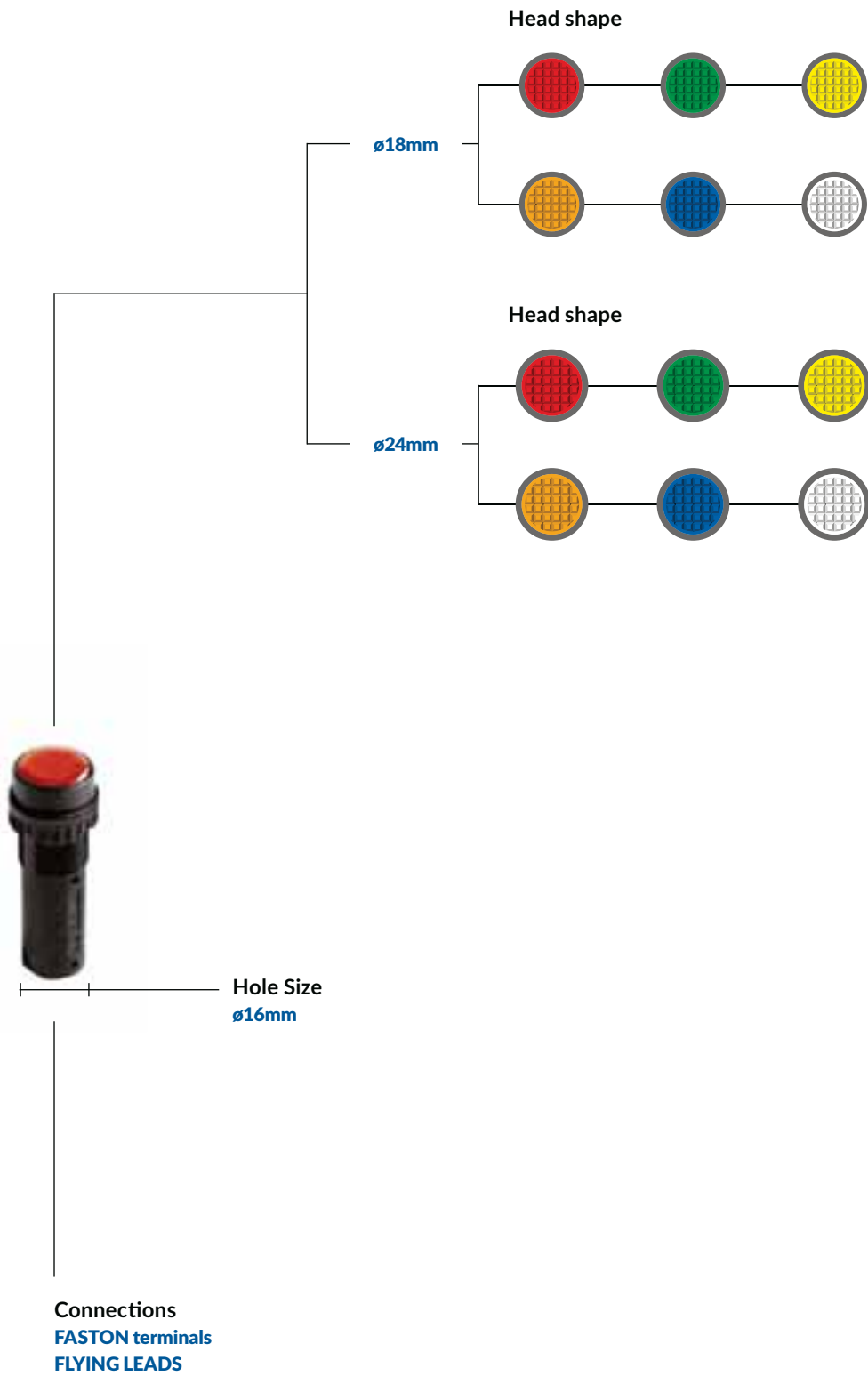
Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm, Screw terminals or Flying Leads.



Product diagram Ø16mm

Extra bright LED Indicators IP65

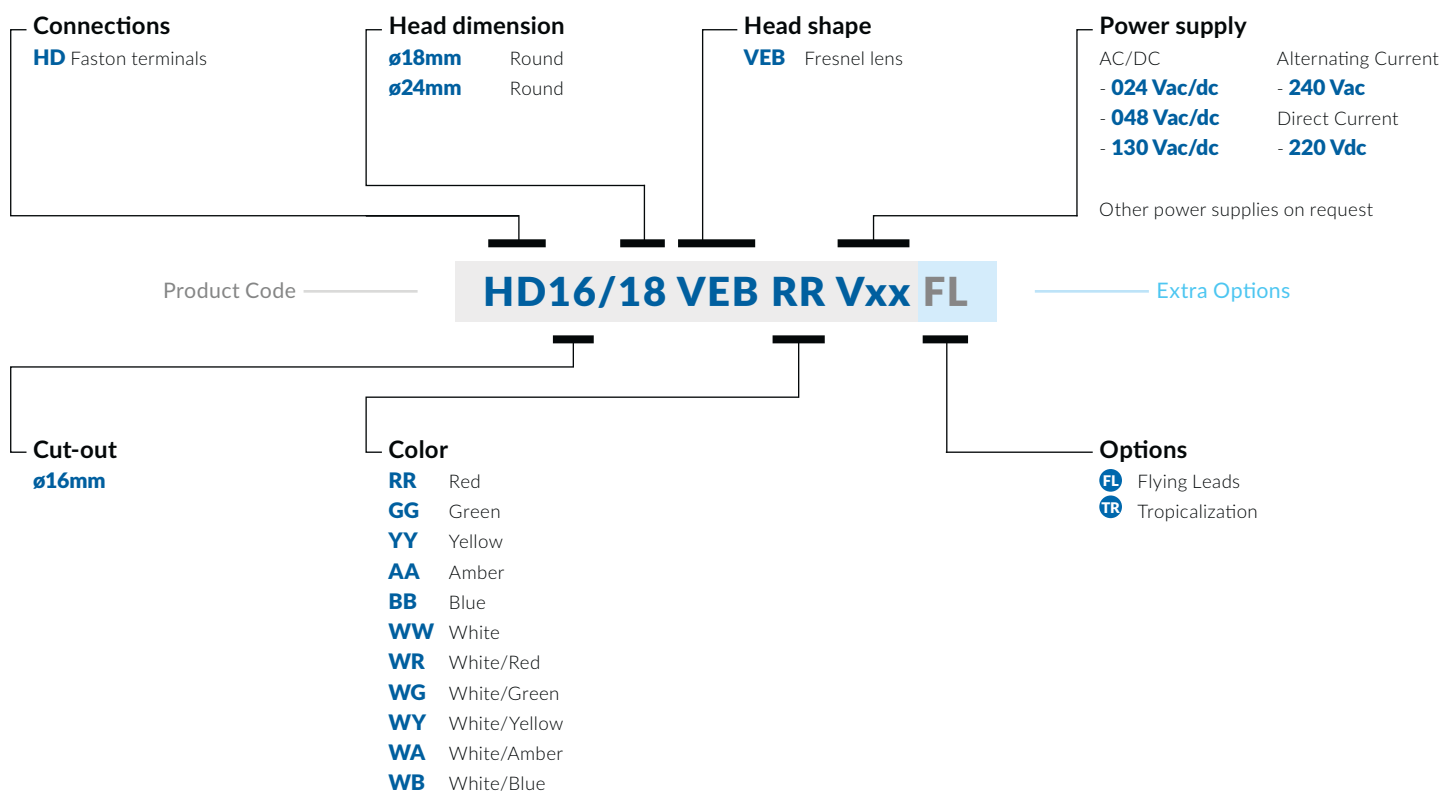
Sunlight visibility



Product code structure Ø16mm

Extra bright LED Indicators IP65

Sunlight visibility



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



HD16/18 VEB - Faston terminals

HD16/24 VEB - Faston terminals

16/18
Head Ø18mm
Cut-out Ø16
LED diffuser: Ø16mm



16/24
Head Ø24mm
Cut-out Ø16
LED diffuser: Ø22mm



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	HD16/18 VEB RR Vxx	HD16/24 VEB RR Vxx
● Green	● Green	HD16/18 VEB GG Vxx	HD16/24 VEB GG Vxx
● Yellow	● Yellow	HD16/18 VEB YY Vxx	HD16/24 VEB YY Vxx
● Amber	● Amber	HD16/18 VEB AA Vxx	HD16/24 VEB AA Vxx
● Blue	● Blue	HD16/18 VEB BB Vxx	HD16/24 VEB BB Vxx
○ White	○ White	HD16/18 VEB WW Vxx	HD16/24 VEB WW Vxx
		FL TR	FL TR
○ White	● Red	HD16/18 VEB WR Vxx	HD16/24 VEB WR Vxx
○ White	● Green	HD16/18 VEB WG Vxx	HD16/24 VEB WG Vxx
○ White	● Yellow	HD16/18 VEB WY Vxx	HD16/24 VEB WY Vxx
○ White	● Amber	HD16/18 VEB WA Vxx	HD16/24 VEB WA Vxx
○ White	● Blue	HD16/18 VEB WB Vxx	HD16/24 VEB WB Vxx
		FL TR	FL TR

HD16/18 VEB connections - Faston terminals

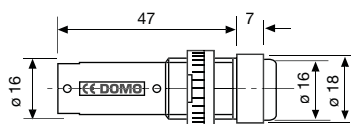
Extra bright LED Indicators IP65

HD16/24 VEB connections - Faston terminals

Sunlight visibility

HD16/18 VEB

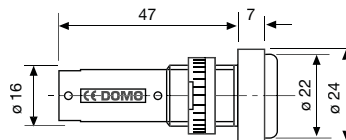
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

HD16/24 VEB

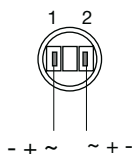
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

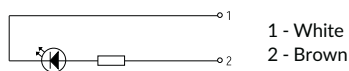
Faston terminals Tabs 2,8 x 0,8mm

Monocolor



Flying Leads

Monocolor

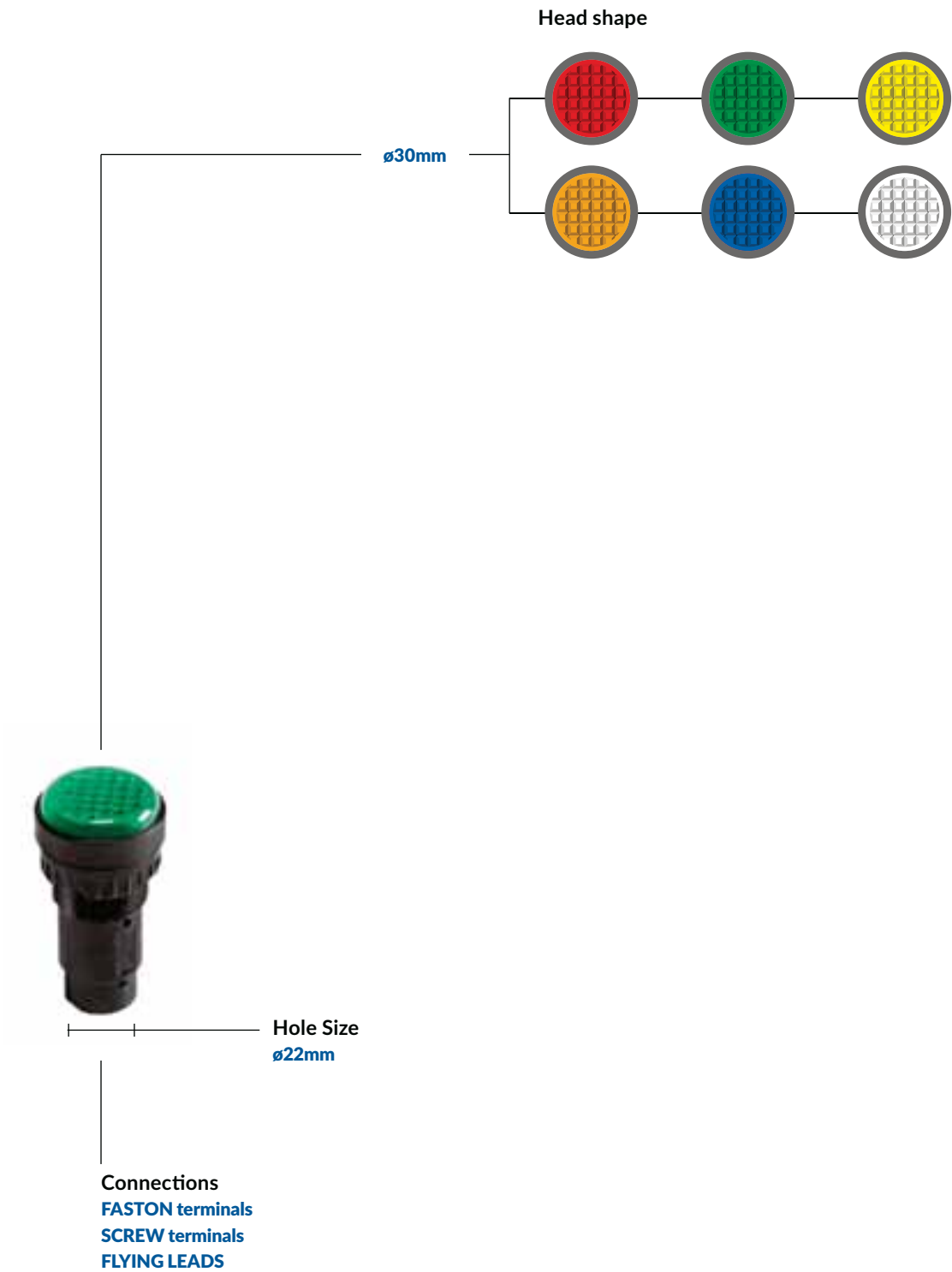




Product diagram Ø22mm

Extra bright LED Indicators IP65

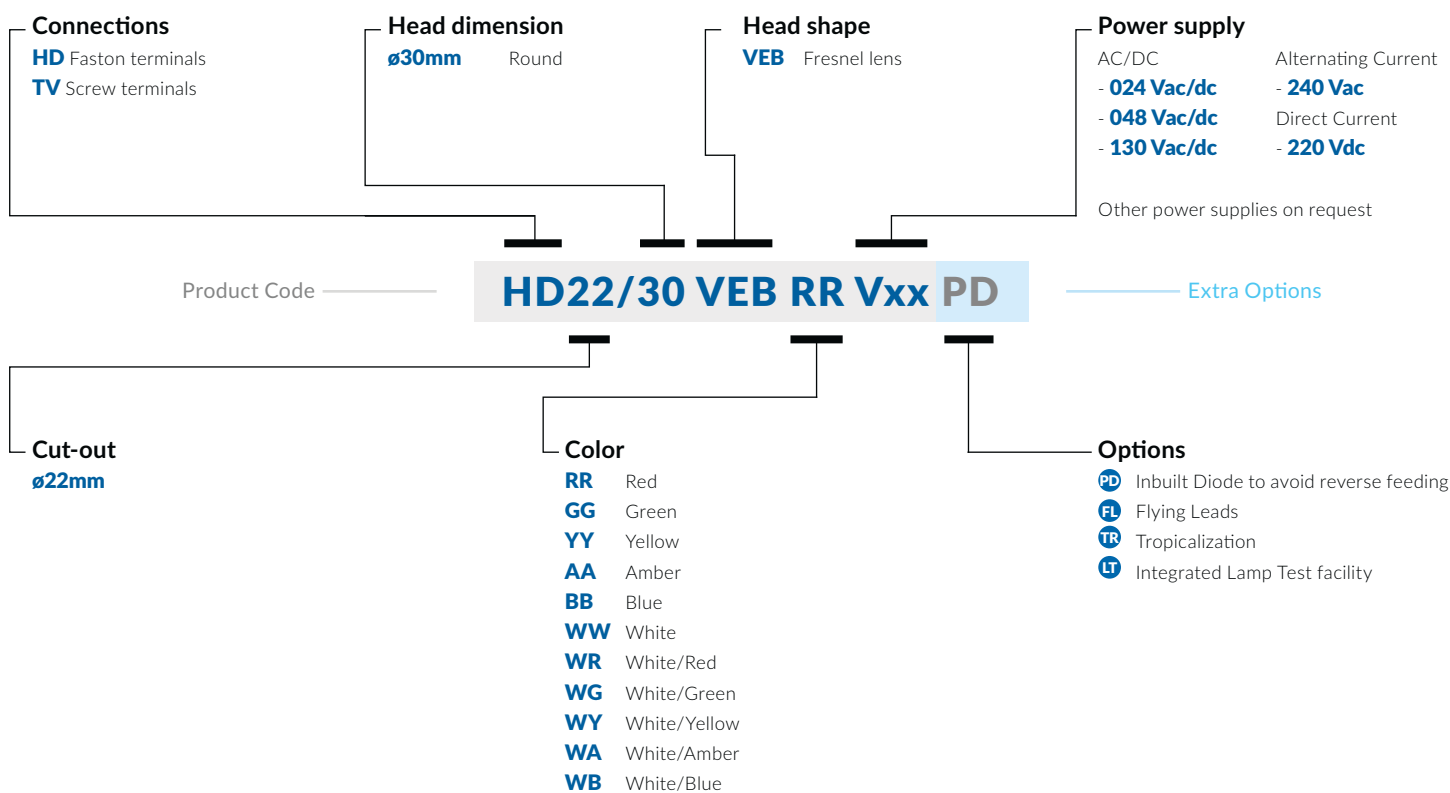
Sunlight visibility



Product code structure Ø22mm

Extra bright LED Indicators IP65

Sunlight visibility



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



HD22/30 VEB - Faston terminals

TV22/30 VEB - Screw terminals

Extra bright LED Indicators IP65

Sunlight visibility

HD22/30
Head Ø30mm
Cut-out Ø22
LED diffuser: Ø26mm



TV22/30
Head Ø30mm
Cut-out Ø22
LED diffuser: Ø26mm



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	HD22/30 VEB RR Vxx	TV22/30 VEB RR Vxx
● Green	● Green	HD22/30 VEB GG Vxx	TV22/30 VEB GG Vxx
● Yellow	● Yellow	HD22/30 VEB YY Vxx	TV22/30 VEB YY Vxx
● Amber	● Amber	HD22/30 VEB AA Vxx	TV22/30 VEB AA Vxx
● Blue	● Blue	HD22/30 VEB BB Vxx	TV22/30 VEB BB Vxx
○ White	○ White	HD22/30 VEB WW Vxx	TV22/30 VEB WW Vxx
		PD FL TR LT	PD FL TR LT
○ White	● Red	HD22/30 VEB WR Vxx	TV22/30 VEB WR Vxx
○ White	● Green	HD22/30 VEB WG Vxx	TV22/30 VEB WG Vxx
○ White	● Yellow	HD22/30 VEB WY Vxx	TV22/30 VEB WY Vxx
○ White	● Amber	HD22/30 VEB WA Vxx	TV22/30 VEB WA Vxx
○ White	● Blue	HD22/30 VEB WB Vxx	TV22/30 VEB WB Vxx
		PD FL TR LT	PD FL TR LT

HD22/30 VEB connections - Faston terminals

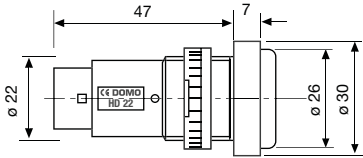
Extra bright LED Indicators IP65

TV22/30 VEB connections - Screw terminals

Sunlight visibility

HD22/30 VEB

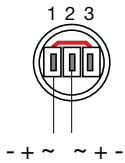
Dimensions mm 1:2



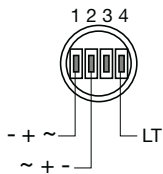
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

Monocolor

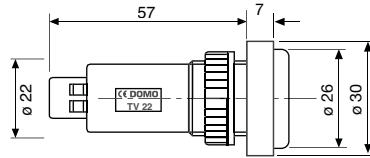


Monocolor + Lamp Test (LT)



TV22/30 VEB

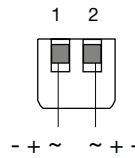
Dimensions mm 1:2



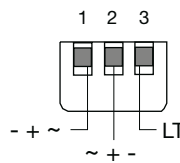
board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

Monocolor

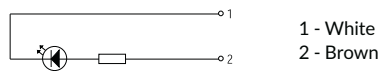


Monocolor + Lamp Test (LT)

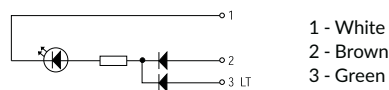


Flying Leads

Monocolor



Monocolor + Lamp Test (LT)





LED Indicators

LED Beacon Lights

LED Beacon Lights

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP54**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

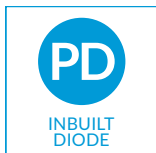
LED consumption: **15mA**

Weight: **10g (16/24PHR) - 20g (22/30PHR) - 30g (22/48PHR)**

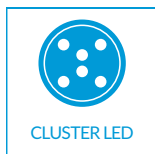
Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Available with inbuilt diode (PD) to avoid reverse feeding and Tropicalization treatment.



Optional Blinking Light. Extra bright visibility even with sunlight thanks to the powerful Cluster LED.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

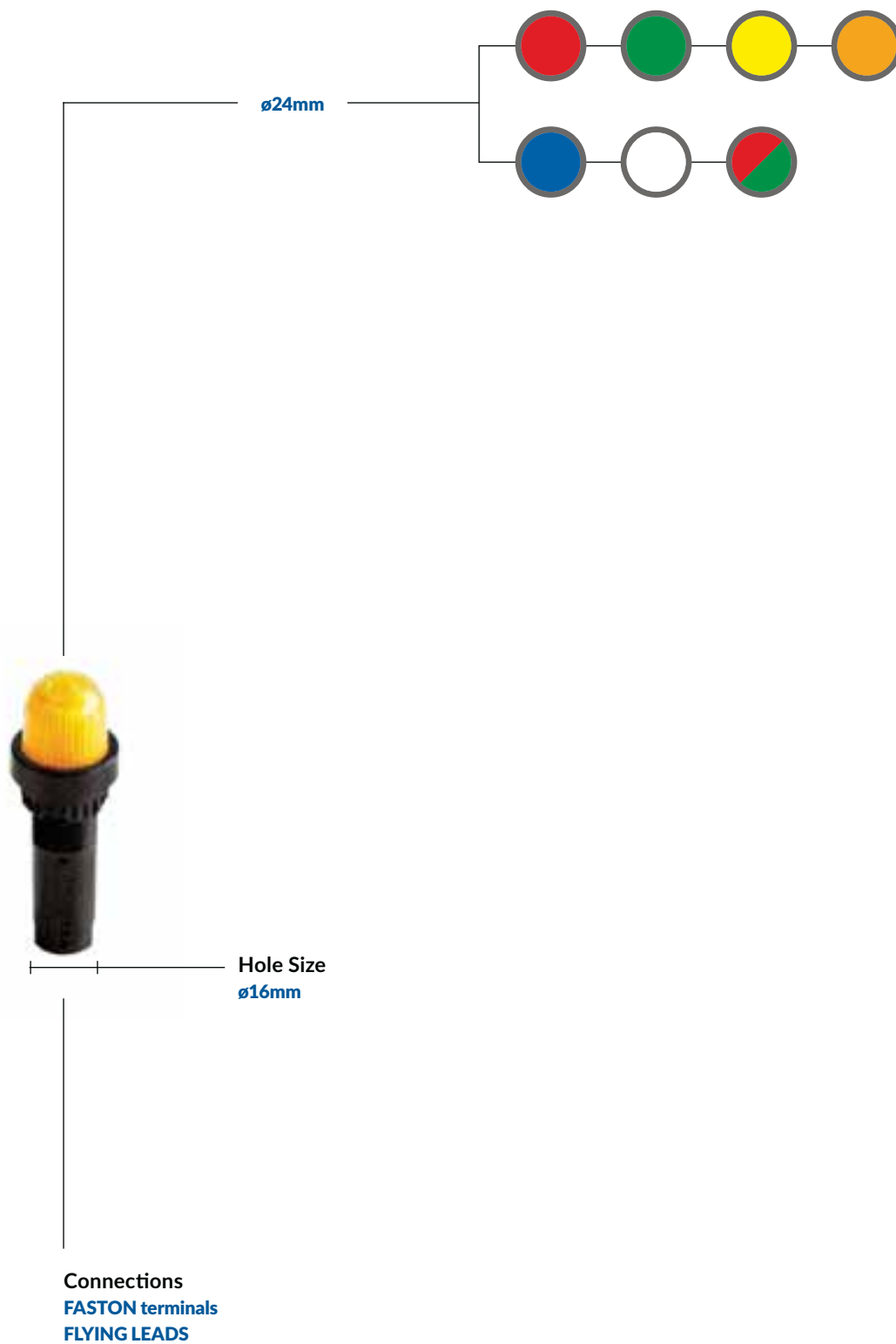
IEC CEI 20-22



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.

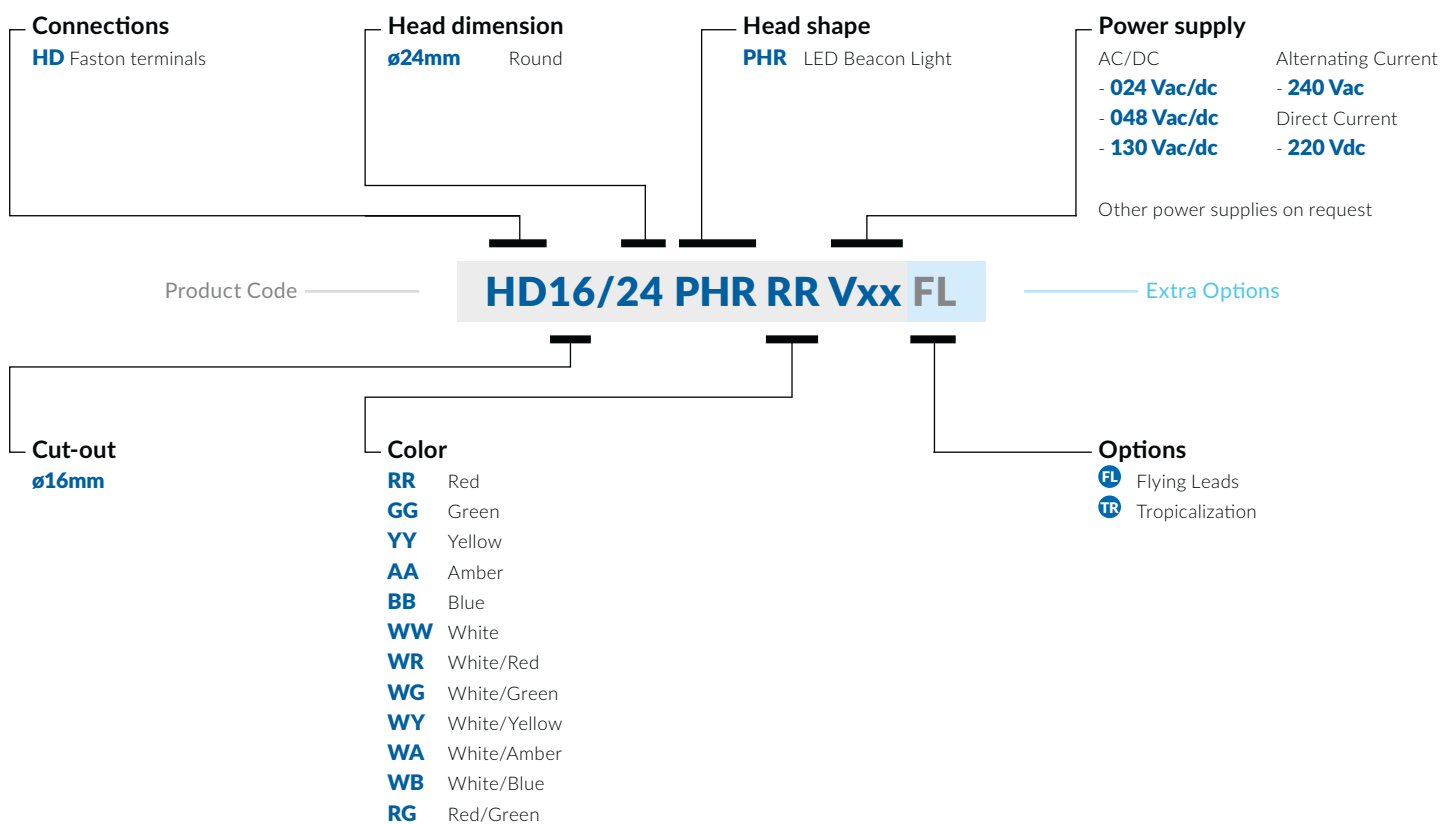


Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm, Screw terminals or Flying Leads.



Product code structure Ø16mm

LED Beacon Lights



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



16/24
Head Ø24mm
Cut-out Ø16
LED diffuser: Ø19mm



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	HD16/24 PHR RR Vxx
● Green	● Green	HD16/24 PHR GG Vxx
● Yellow	● Yellow	HD16/24 PHR YY Vxx
● Amber	● Amber	HD16/24 PHR AA Vxx
● Blue	● Blue	HD16/24 PHR BB Vxx
○ White	○ White	HD16/24 PHR WW Vxx



○ White	● Red	HD16/24 PHR WR Vxx
○ White	● Green	HD16/24 PHR WG Vxx
○ White	● Yellow	HD16/24 PHR WY Vxx
○ White	● Amber	HD16/24 PHR WA Vxx
○ White	● Blue	HD16/24 PHR WB Vxx



Bicolor LED

○ White	● Red/Green	HD16/24 PHR RG Vxx
---------	-------------	--------------------

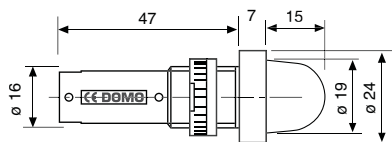


HD16/24 connections - Faston terminals

LED Beacon Lights

HD16/24 PHR

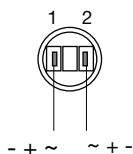
Dimensions mm 1:2



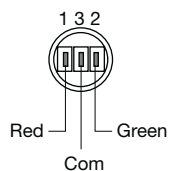
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

Monocolor

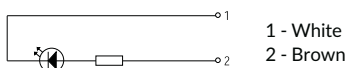


Bicolor

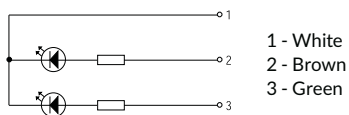


Flying Leads

Monocolor



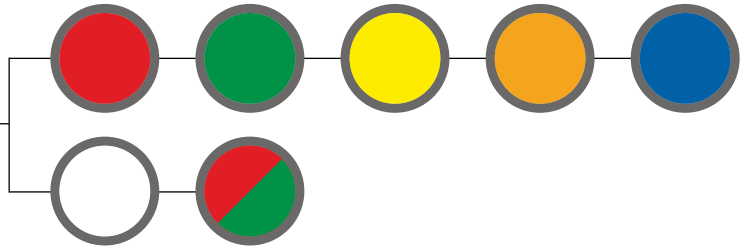
Bicolor





Product diagram Ø22mm

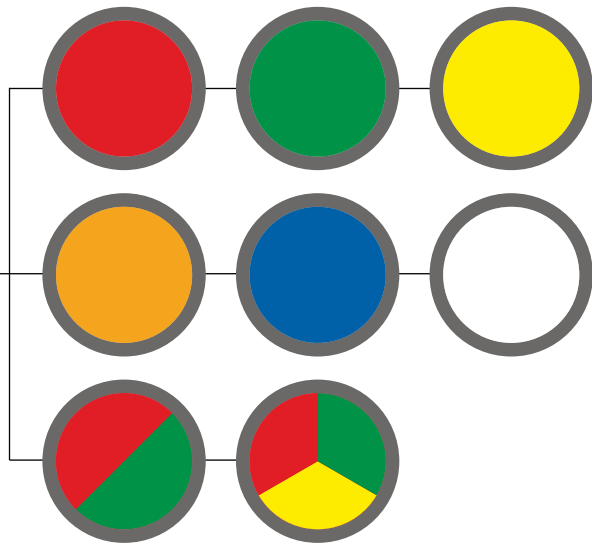
Head shape



22/30

ø30mm

Head shape



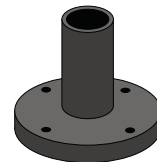
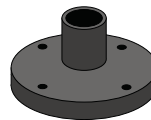
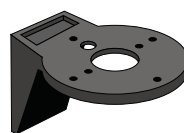
22/48

ø48mm



Hole Size
ø22mm

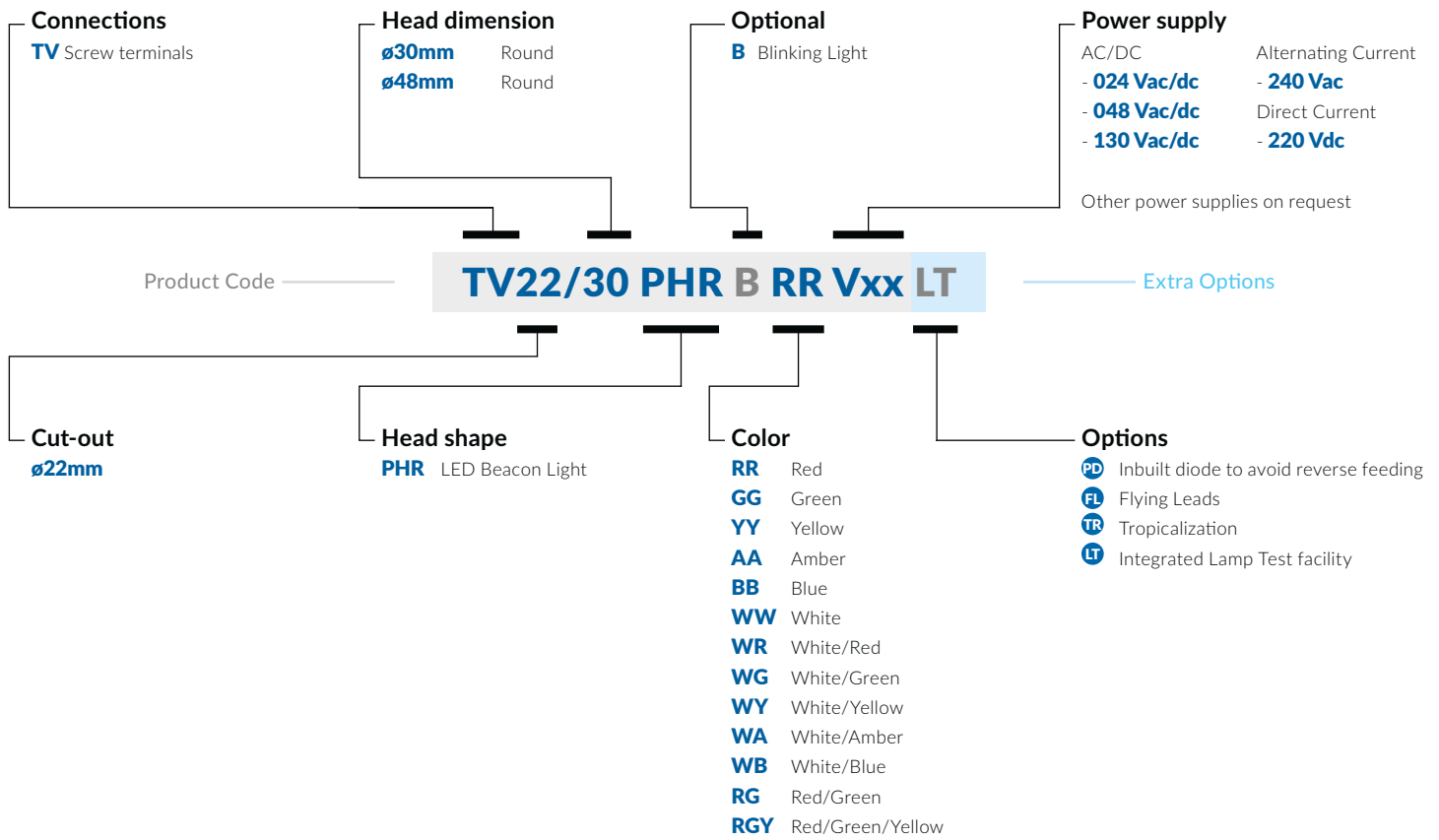
Connections
SCREW terminal
FLYING LEADS



Accessories

Product code structure Ø22mm

LED Beacon Lights



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



TV22/30 PHR - Screw terminals

TV22/48 PHR - Screw terminals

TV22/30
 Head Ø30mm
 Cut-out Ø22
 LED diffuser: Ø23mm



TV22/48
 Head Ø48mm
 Cut-out Ø22
 LED diffuser: Ø39mm



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	TV22/30 PHR RR Vxx	TV22/48 PHR RR Vxx
● Green	● Green	TV22/30 PHR GG Vxx	TV22/48 PHR GG Vxx
● Yellow	● Yellow	TV22/30 PHR YY Vxx	TV22/48 PHR YY Vxx
● Amber	● Amber	TV22/30 PHR AA Vxx	TV22/48 PHR AA Vxx
● Blue	● Blue	TV22/30 PHR BB Vxx	TV22/48 PHR BB Vxx
○ White	○ White	TV22/30 PHR WW Vxx	TV22/48 PHR WW Vxx
		PD FL TR LT	PD FL TR LT
○ White	● Red	TV22/30 PHR WR Vxx	TV22/48 PHR WR Vxx
○ White	● Green	TV22/30 PHR WG Vxx	TV22/48 PHR WG Vxx
○ White	● Yellow	TV22/30 PHR WY Vxx	TV22/48 PHR WY Vxx
○ White	● Amber	TV22/30 PHR WA Vxx	TV22/48 PHR WA Vxx
○ White	● Blue	TV22/30 PHR WB Vxx	TV22/48 PHR WB Vxx
		PD FL TR LT	PD FL TR LT

Bicolor, Tricolor and Multicolor

○ White	● Red/Green	TV22/30 PHR RG Vxx	TV22/48 PHR RG Vxx
○ White	● Red/Green/Yellow	-	TV22/48 PHR RGY Vxx
		FL TR	FL TR

Blinking Light

● Red	● Red	TV22/30 PHR B RR Vxx	TV22/48 PHR B RR Vxx
● Green	● Green	TV22/30 PHR B GG Vxx	TV22/48 PHR B GG Vxx
● Yellow	● Yellow	TV22/30 PHR B YY Vxx	TV22/48 PHR B YY Vxx
● Amber	● Amber	TV22/30 PHR B AA Vxx	TV22/48 PHR B AA Vxx
● Blue	● Blue	TV22/30 PHR B BB Vxx	TV22/48 PHR B BB Vxx
○ White	○ White	TV22/30 PHR B WW Vxx	TV22/48 PHR B WW Vxx
		PD FL TR Max 130V no LT	PD FL TR

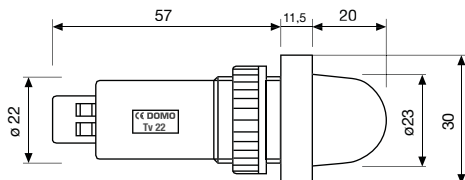
TV22/30 connections - Screw terminals

LED Beacon Lights

TV22/48 connections - Screw terminals

TV22/30 PHR

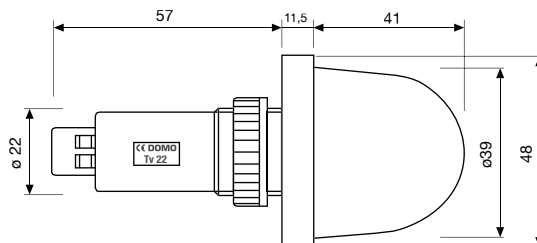
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/48 PHR

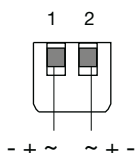
Dimensions mm 1:2



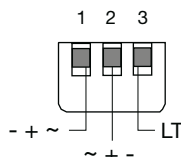
board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

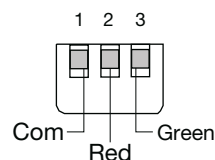
Monocolor



Monocolor + Lamp Test (LT)

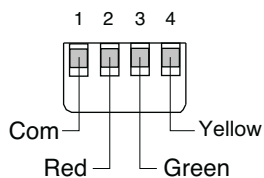


Bicolor



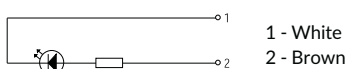
Screw terminal 16 AWG - 0,75 ÷ 1,0mmq

Tricolor

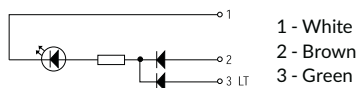


Flying Leads

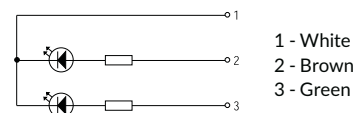
Monocolor



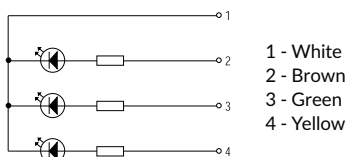
Monocolor + Lamp Test (LT)



Bicolor



Tricolor





Wall mounting bracket for
• Ø22mm indicators
• base for tube
• base for Ø22mm indicators



ABR 70 1

Base for Ø26mm tube



ABS70 TB X

Ø26mm aluminium tube,
for Ø22mm indicators



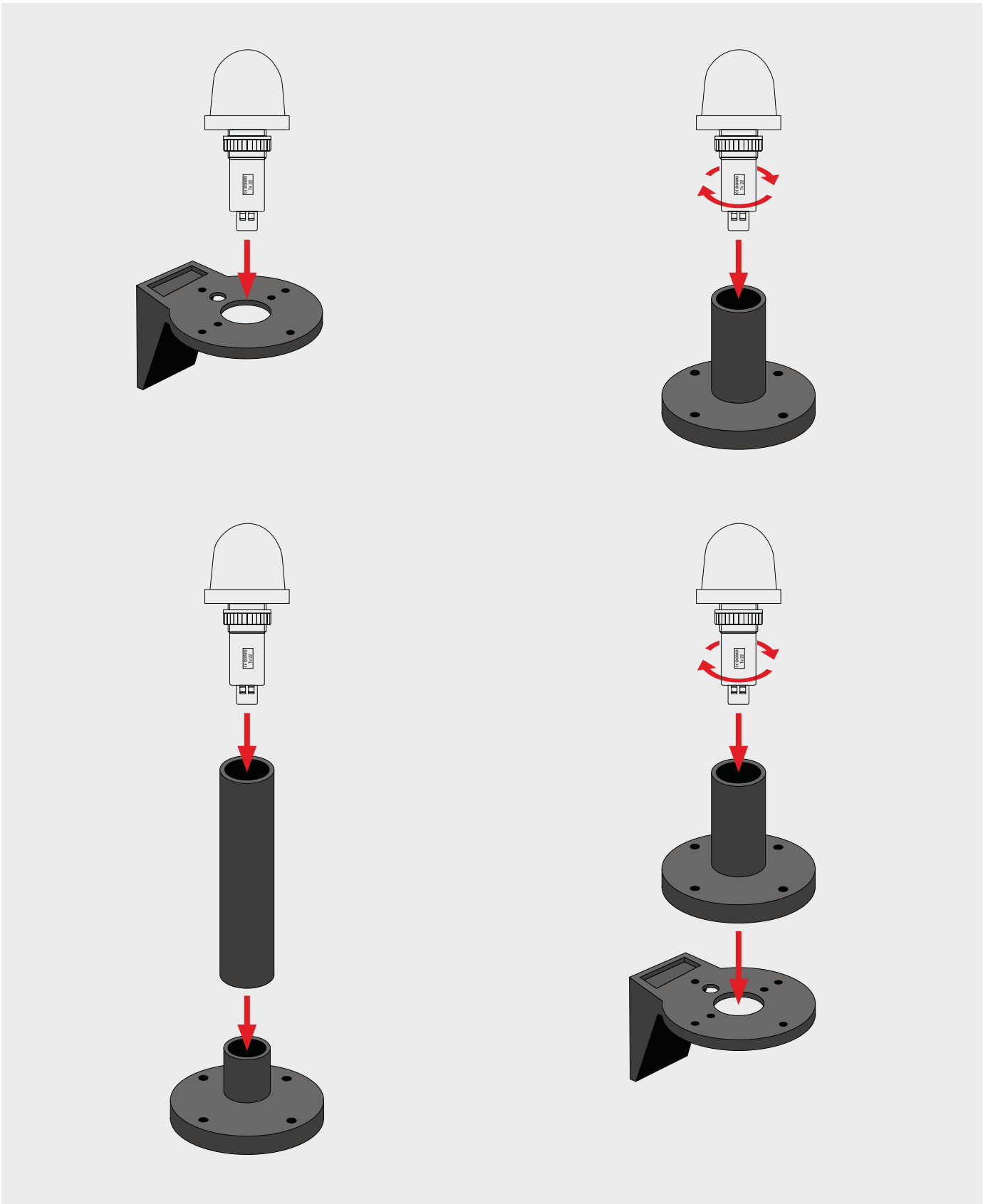
ABS70 TR22 X

Base for Ø22mm indicators



ABS70 22D





Attention! Screw and plastic ring protection included.



LED Indicators

Stack Lights with LEDs

Stack Lights with LEDs

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Lens: **Polycarbonate**

Protection degree: **IP65 - NEMA 4X**

LEDs not replaceable - Modules not detachable

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **100.000 h**

LED consumption: **15mA**

Customs tariff: **85389091**



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.



Easy to connect thanks to the Screw terminals or Flying Leads.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

AC/DC - 15-20mA

130 = 110-130 Vac/dc

(Not available for all versions)

Alternating Current - 15mA

240 Vac

(Not available for all versions)

Lamp Test not available

Direct Current - 9mA

220 Vdc

(Not available for all versions)

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

IEC CEI 20-22



Tropicalization treatment available on request.

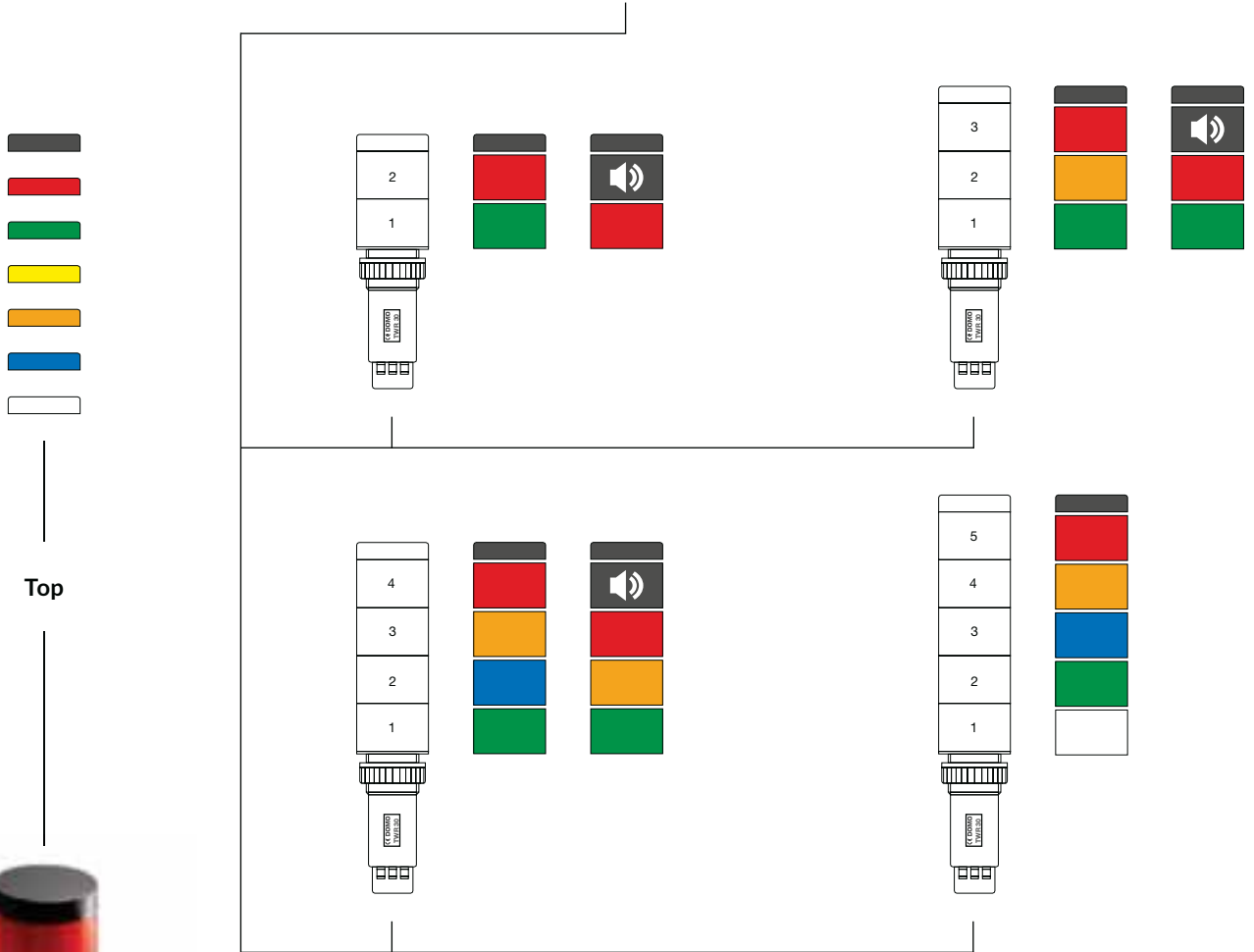
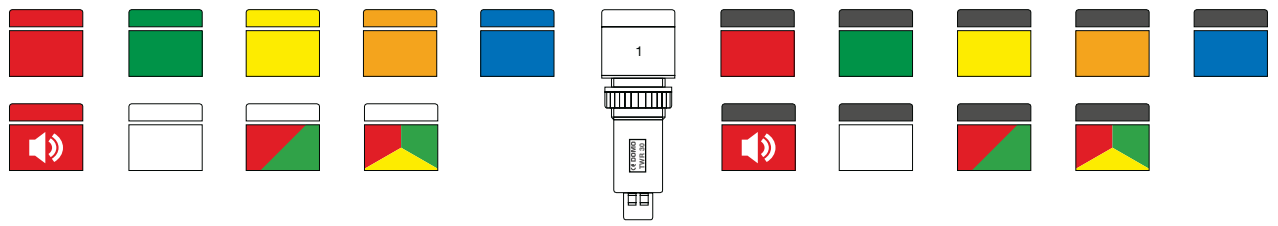


Optional Blinking Light. Extra bright visibility even with sunlight thanks to the powerful Cluster LED.

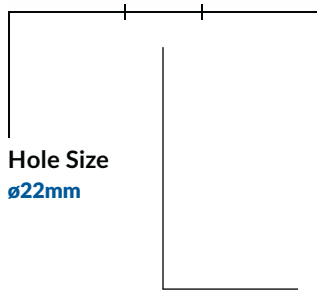


Product diagram Ø22mm

Stack Lights with LEDs

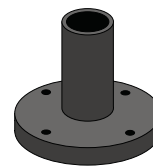
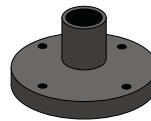
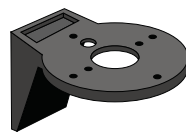


Modules



Connections
SCREW terminals
FLYING LEADS

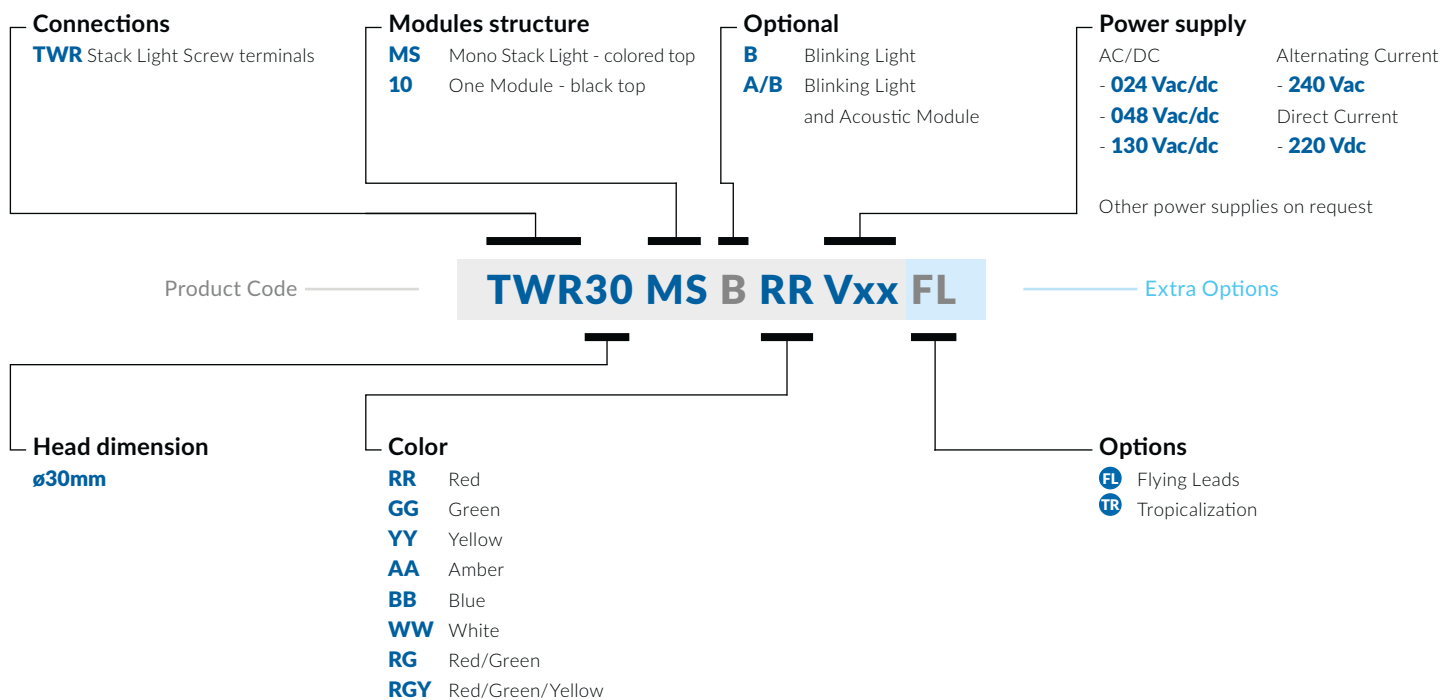
Accessories



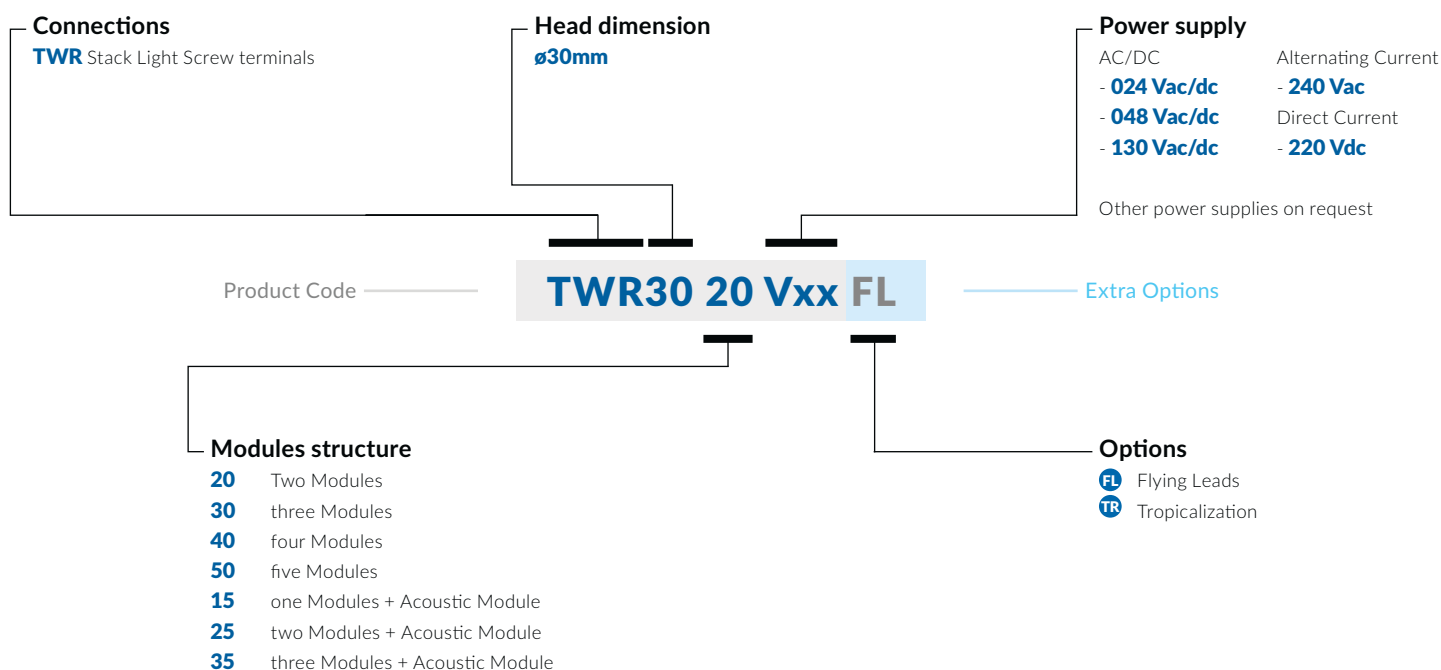
Product code structure Ø22mm

Stack Lights with LEDs

Mono-Stack Light / One Module Stack Light



Multi Modules Stack Light preassembled





TWR30 MS - Screw terminals

TWR30 - Screw terminals

Colors		TWR30 MS Head Ø30mm Cut-out Ø22	TWR30 Head Ø30mm Cut-out Ø22
LED diffuser	LED		
● Red	● Red	TWR30 MS RR Vxx	TWR30 10 RR Vxx
● Green	● Green	TWR30 MS GG Vxx	TWR30 10 GG Vxx
● Yellow	● Yellow	TWR30 MS YY Vxx	TWR30 10 YY Vxx
● Amber	● Amber	TWR30 MS AA Vxx	TWR30 10 AA Vxx
● Blue	● Blue	TWR30 MS BB Vxx	TWR30 10 BB Vxx
○ White	○ White	TWR30 MS WW Vxx	TWR30 10 WW Vxx
		FL TR	FL TR
Bicolor, Tricolor			
○ White	● Red/Green	TWR30 MS RG Vxx	TWR30 10 RG Vxx
○ White	● Red/Green/Yellow	TWR30 MS RGY Vxx	TWR30 10 RGY Vxx
		FL TR	FL TR
Blinking Light			
● Red	● Red	TWR30 MS B RR Vxx	TWR30 10 B RR Vxx
● Green	● Green	TWR30 MS B GG Vxx	TWR30 10 B GG Vxx
● Yellow	● Yellow	TWR30 MS B YY Vxx	TWR30 10 B YY Vxx
● Amber	● Amber	TWR30 MS B AA Vxx	TWR30 10 B AA Vxx
● Blue	● Blue	TWR30 MS B BB Vxx	TWR30 10 B BB Vxx
○ White	○ White	TWR30 MS B WW Vxx	TWR30 10 B WW Vxx
		FL TR	FL TR
Blinking Light + Acoustic Module			
● Red	● Red	TWR30 MS B/A RR Vxx	TWR30 10 B/A RR Vxx
		FL TR	FL TR

TWR30 - Screw terminals

Stack Lights with LEDs preassembled

TWR30
Head Ø30mm
Cut-out Ø22



- -
 -
 - Module 2 ● Red
 - Module 1 ● Green
- TWR30 20 Vxx



TWR30
Head Ø30mm
Cut-out Ø22



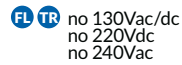
- -
 - Module 3 ● Red
 - Module 2 ● Amber
 - Module 1 ● Green
- TWR30 30 Vxx



TWR30
Head Ø30mm
Cut-out Ø22



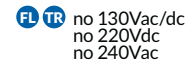
- - Module 4 ● Red
 - Module 3 ● Amber
 - Module 2 ● Blue
 - Module 1 ● Green
- TWR30 40 Vxx



TWR30
Head Ø30mm
Cut-out Ø22



- Module 5 ● Red
 - Module 4 ● Amber
 - Module 3 ● Blue
 - Module 2 ● Green
 - Module 1 ○ White
- TWR30 50 Vxx



TWR30
Head Ø30mm
Cut-out Ø22



- -
 - Module 2 Acoustic
 - Module 1 ● Green
- TWR30 15 Vxx



TWR30
Head Ø30mm
Cut-out Ø22



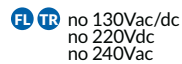
- - Module 3 Acoustic
 - Module 2 ● Red
 - Module 1 ● Green
- TWR30 25 Vxx



TWR30
Head Ø30mm
Cut-out Ø22



- Module 4 Acoustic
 - Module 3 ● Red
 - Module 2 ● Amber
 - Module 1 ● Green
- TWR30 35 Vxx



Modules + Acoustic Module

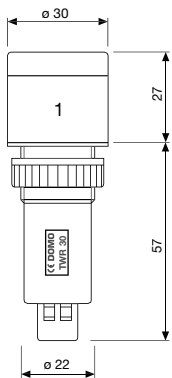
Attention! Other color combinations available on request



TWR30 connections - Screw terminals

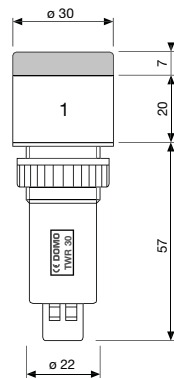
TWR30 MS

Dimensions mm 1:2



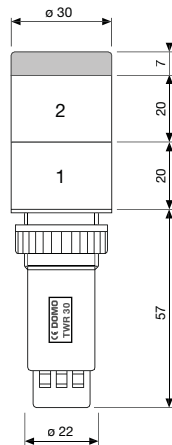
TWR30 - 1 mod.

Dimensions mm 1:2



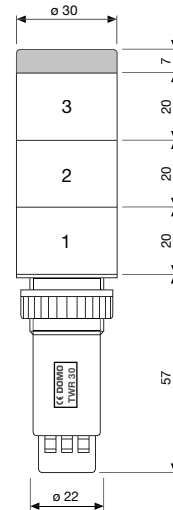
TWR30 - 2 mod.

Dimensions mm 1:2



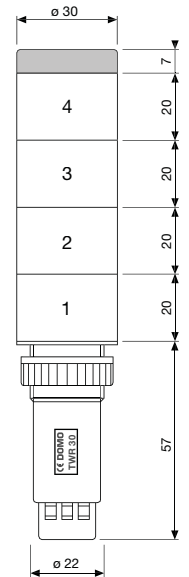
TWR30 - 3 mod.

Dimensions mm 1:2



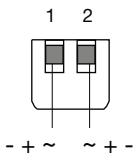
TWR30 - 4 mod.

Dimensions mm 1:2

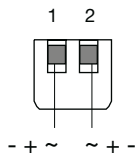


Screw terminal
14 AWG 2,5mmq

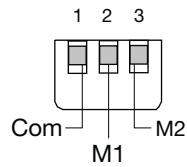
Monocolor



1 Module

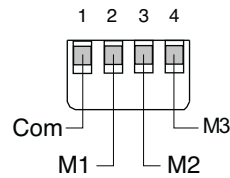


2 Modules

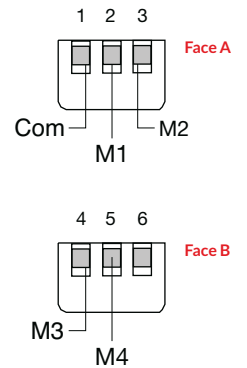


Screw terminal
16 AWG 0,75 ÷ 1,0mmq

3 Modules

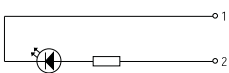


4 Modules

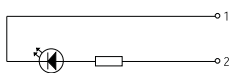


Flying Leads

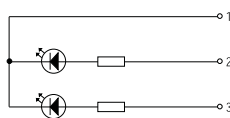
Monocolor



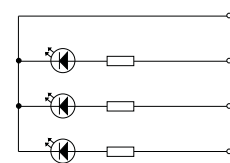
1 Module



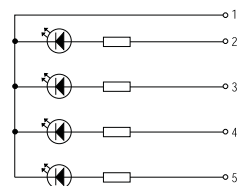
2 Modules



3 Modules



4 Modules



1 - White
2 - Brown

1 - White
2 - Brown

1 - White
2 - Brown
3 - Green

1 - White
2 - Brown
3 - Green
4 - Yellow

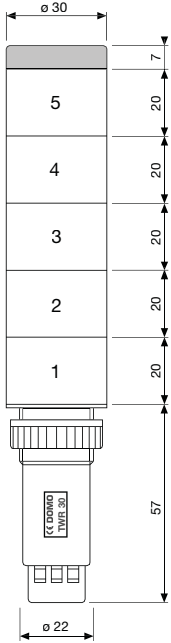
1 - White
2 - Brown
3 - Green
4 - Yellow
5 - Grey

TWR30 connections - Screw terminals

Stack Lights with LEDs

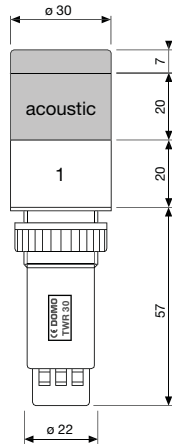
TWR30 - 5 mod.

Dimensions mm 1:2



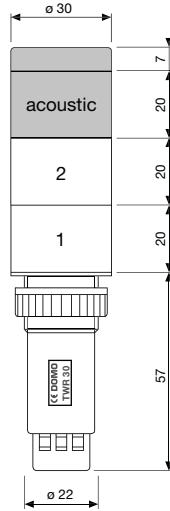
TWR30 - 1 mod. + Ac.

Dimensions mm 1:2



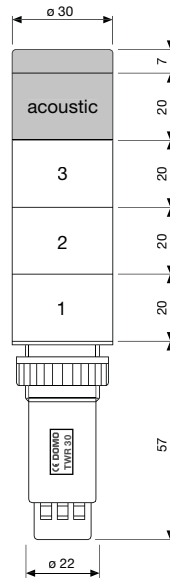
TWR30 - 2 mod. + Ac.

Dimensions mm 1:2



TWR30 - 3 mod. + Ac.

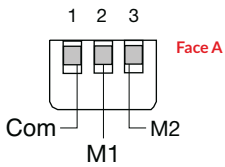
Dimensions mm 1:2



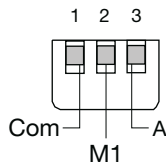
Screw terminal
14 AWG 2,5mmq

Screw terminal
16 AWG 0,75 ÷ 1,0mmq

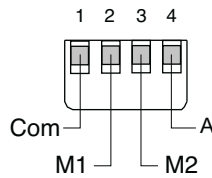
5 Modules



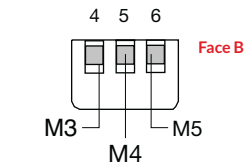
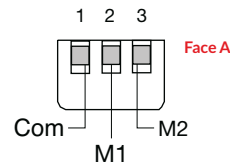
1 Mod. + Acoustic Mod.



2 Mod. + Acoustic Mod.



3 Mod. + Acoustic Mod.



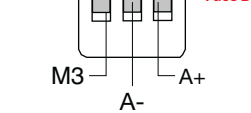
1 Mod. + Acoustic Mod.



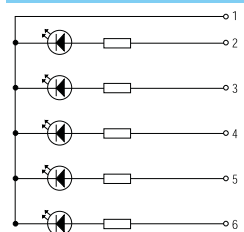
2 Mod. + Acoustic Mod.



3 Mod. + Acoustic Mod.

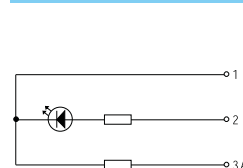


5 Modules



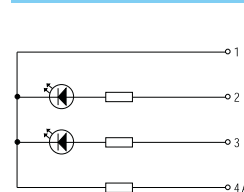
1 - White
2 - Brown
3 - Green
4 - Yellow
5 - Grey
6 - Pink

1 Mod. + Acoustic Mod.



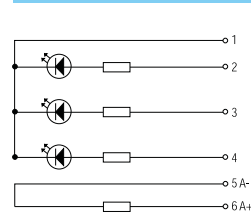
1 - White
2 - Brown
3 - Green

2 Mod. + Acoustic Mod.



1 - White
2 - Brown
3 - Green
4 - Yellow

3 Mod. + Acoustic Mod.



1 - White
2 - Brown
3 - Green
4 - Yellow
5 - Grey
6 - Pink



Wall mounting bracket for
• Ø22mm indicators
• base for tube
• base for Ø22mm indicators



ABR 70 1

Base for Ø26mm tube



ABS70 TB X

Ø26mm aluminium tube,
for Ø22mm indicators



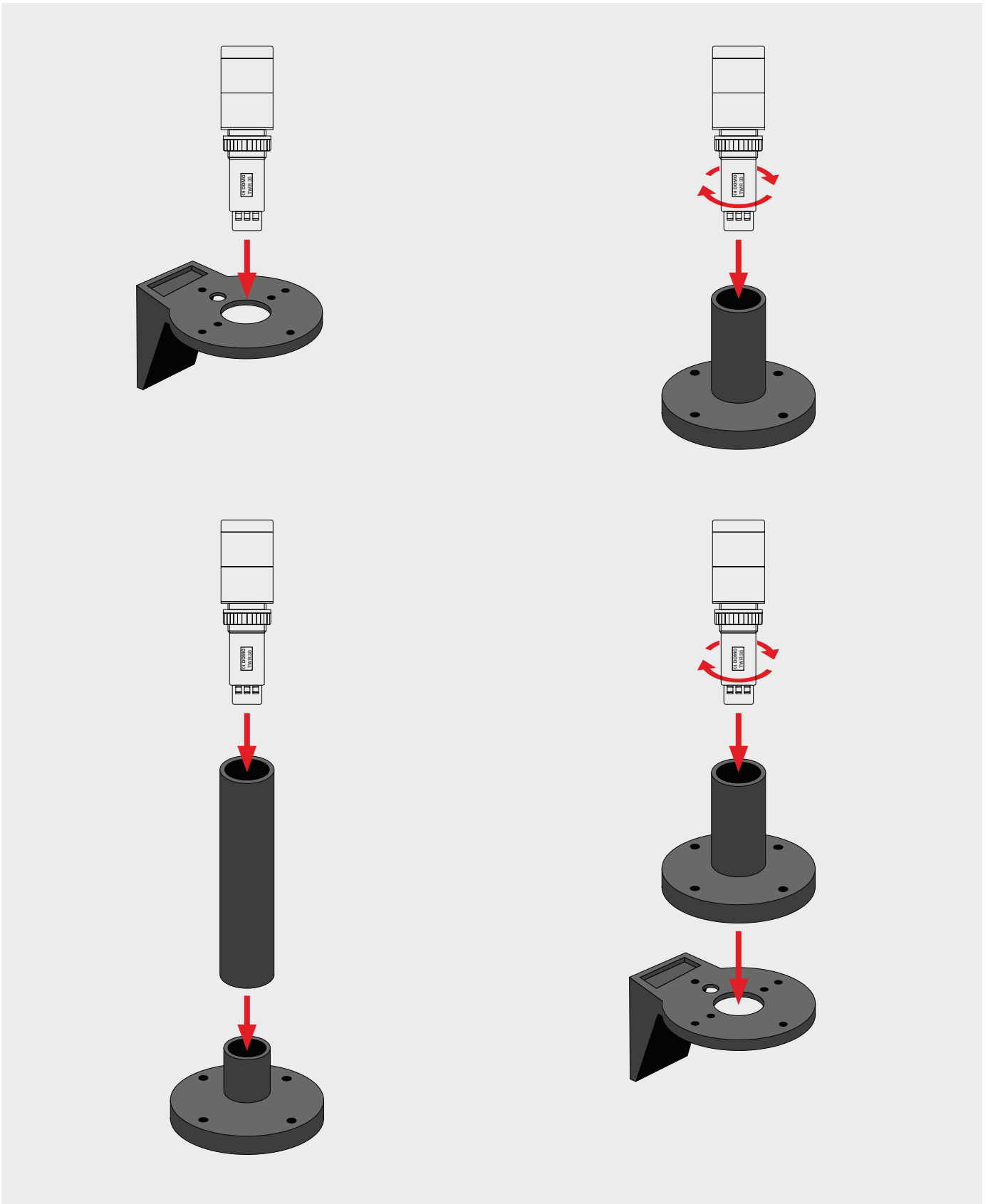
ABS70 TR22 X

Base for Ø22mm indicators



ABS70 22D





Attention! Screw and plastic ring protection included.



LED Indicators

Pilot Lights with integrated LED

Pilot Lights with integrated LED

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP54**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

LED consumption: **15mA**

Weight: **18g (22/30) - 30g (22/48)**

Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Tropicalization treatment available on request.



Optional Blinking Light.
High luminosity thanks to the special Fresnel lens.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

IEC CEI 20-22



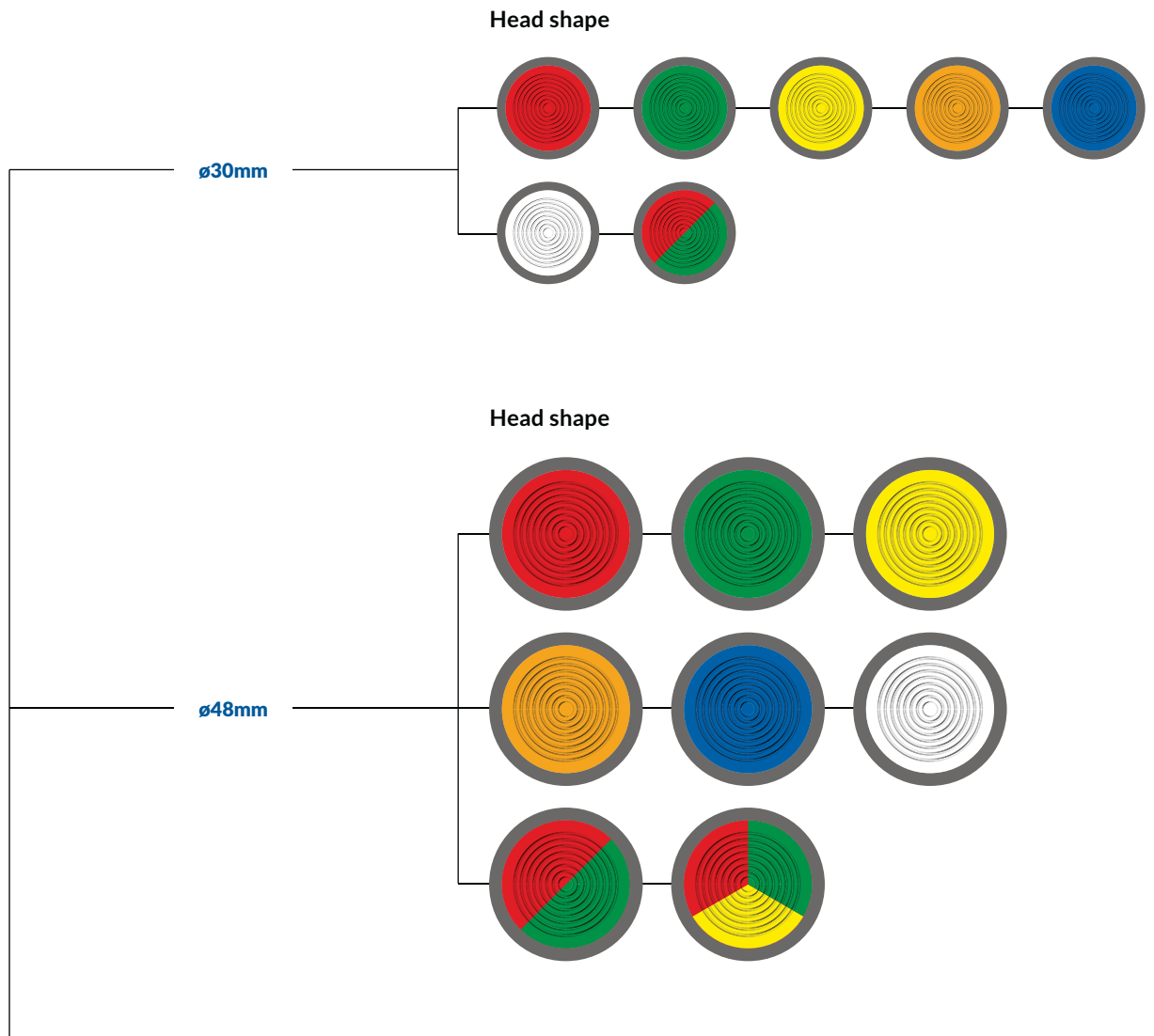
Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.



Easy to connect thanks to the Screw terminals or Flying Leads.



Screw head interchangeable with different colors.

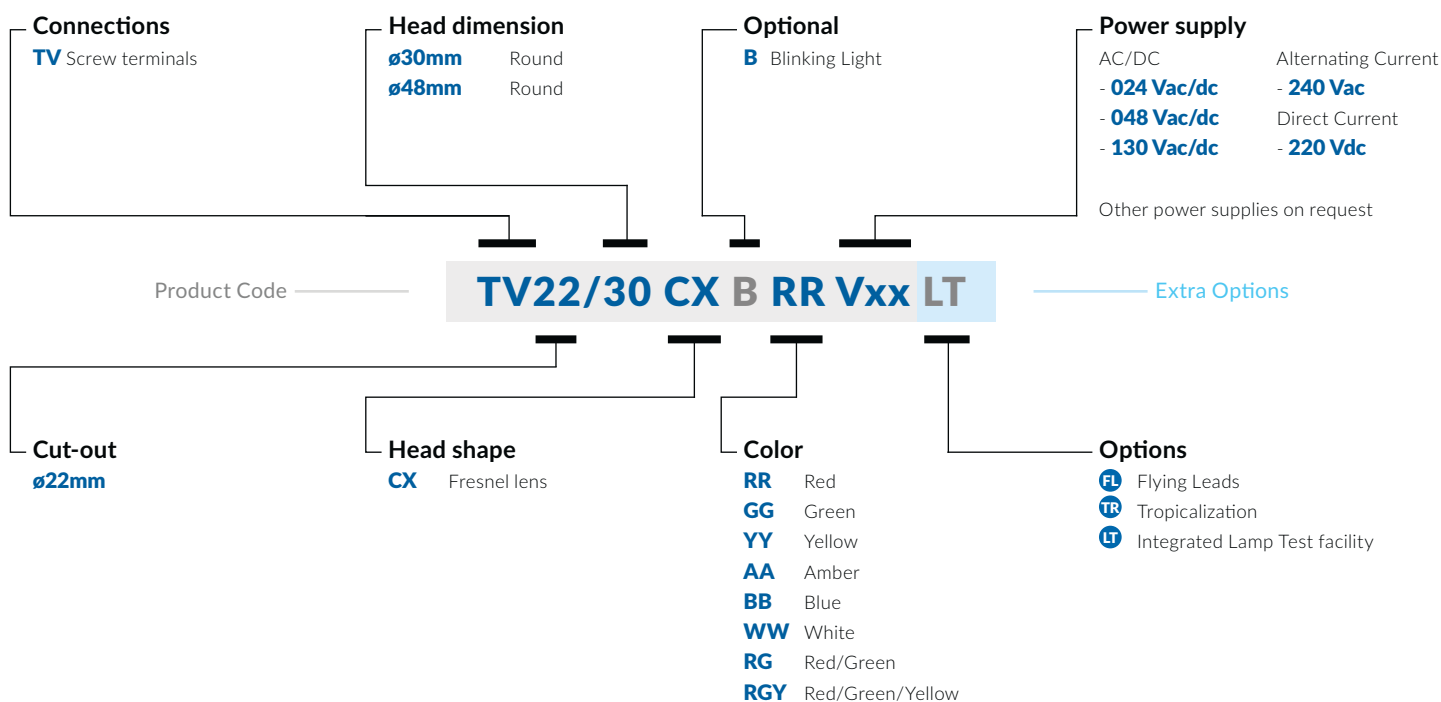


Hole Size
ø22mm

Connections
SCREW terminals
FLYING LEADS

Product code structure Ø22mm

Pilot Lights with integrated LED



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



TV22/30 CX - Screw terminals

TV22/48 CX - Screw terminals

Ø30
Head Ø30mm
Cut-out Ø22



Ø48
Head Ø48mm
Cut-out Ø22



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	TV22/30 CX RR Vxx	TV22/48 CX RR Vxx
● Green	● Green	TV22/30 CX GG Vxx	TV22/48 CX GG Vxx
● Yellow	● Yellow	TV22/30 CX YY Vxx	TV22/48 CX YY Vxx
● Amber	● Amber	TV22/30 CX AA Vxx	TV22/48 CX AA Vxx
● Blue	● Blue	TV22/30 CX BB Vxx	TV22/48 CX BB Vxx
○ White	○ White	TV22/30 CX WW Vxx	TV22/48 CX WW Vxx
		(FL) (TR) (LT)	(FL) (TR) (LT)

Bicolor and Tricolor

○ White	● Red/Green	TV22/30 CX RG Vxx	TV22/48 CX RG Vxx
○ White	● Red/Green/Yellow	-	TV22/48 CX RGY Vxx
		(FL) (TR)	(FL) (TR)

Blinking Light (24V only)

● Red	● Red	TV22/30 CX B RR Vxx	TV22/48 CX B RR Vxx
● Green	● Green	TV22/30 CX B GG Vxx	TV22/48 CX B GG Vxx
● Yellow	● Yellow	TV22/30 CX B YY Vxx	TV22/48 CX B YY Vxx
● Amber	● Amber	TV22/30 CX B AA Vxx	TV22/48 CX B AA Vxx
● Blue	● Blue	TV22/30 CX B BB Vxx	TV22/48 CX B BB Vxx
○ White	○ White	TV22/30 CX B WW Vxx	TV22/48 CX B WW Vxx
		(FL) (TR)	(FL) (TR)

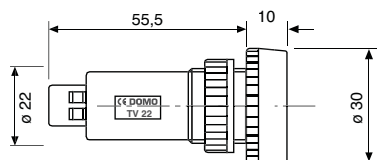
TV22/30 CX connections - Screw terminals

Pilot Lights with integrated LED

TV22/48 CX connections - Screw terminals

TV22/30 CX

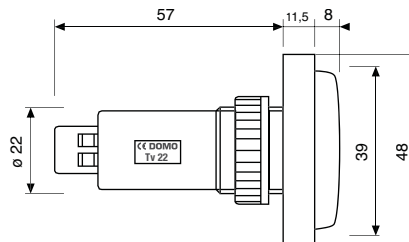
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/48 CX

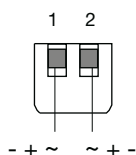
Dimensions mm 1:2



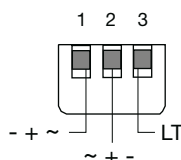
board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

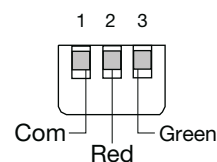
Monocolor



Monocolor + Lamp Test (LT)

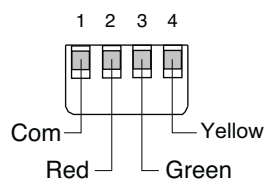


Bicolor



Screw terminal 16 AWG - 0,75 ÷ 1,0mmq

Tricolor



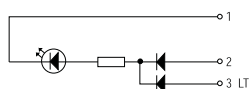
Flying Leads

Monocolor



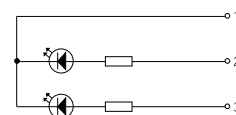
1 - White
2 - Brown

Monocolor + Lamp Test (LT)



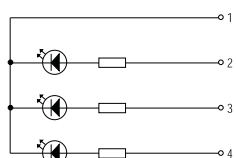
1 - White
2 - Brown
3 - Green

Bicolor



1 - White
2 - Brown
3 - Green

Tricolor

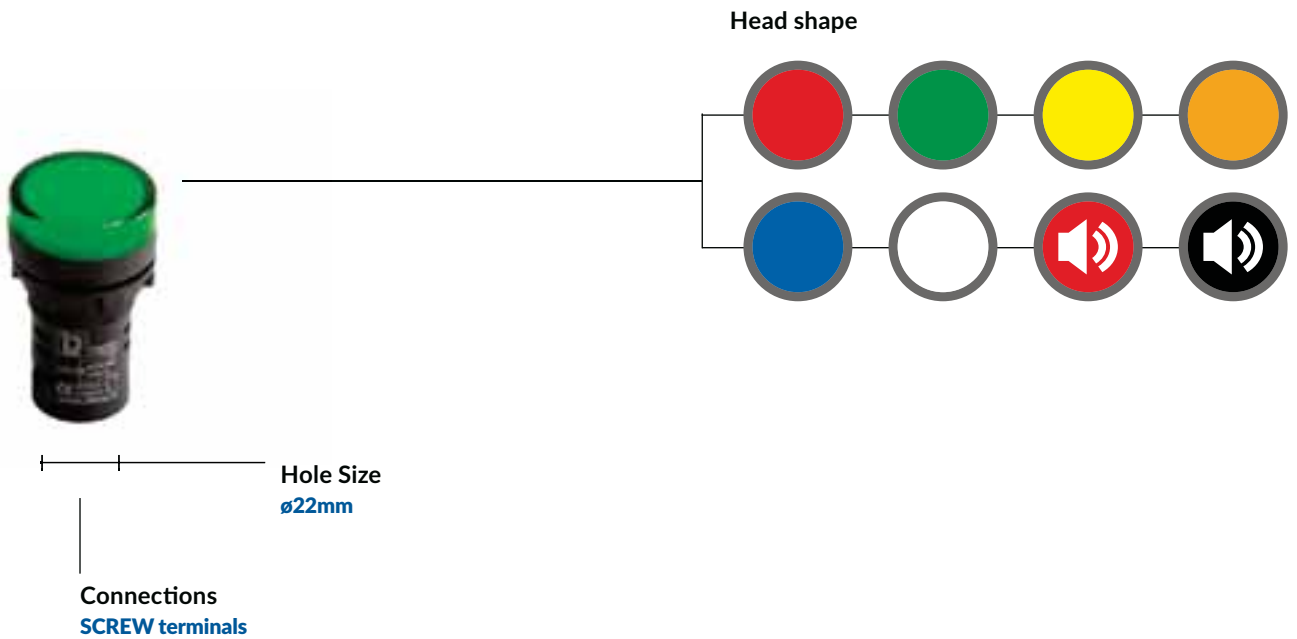


1 - White
2 - Brown
3 - Green
4 - Yellow



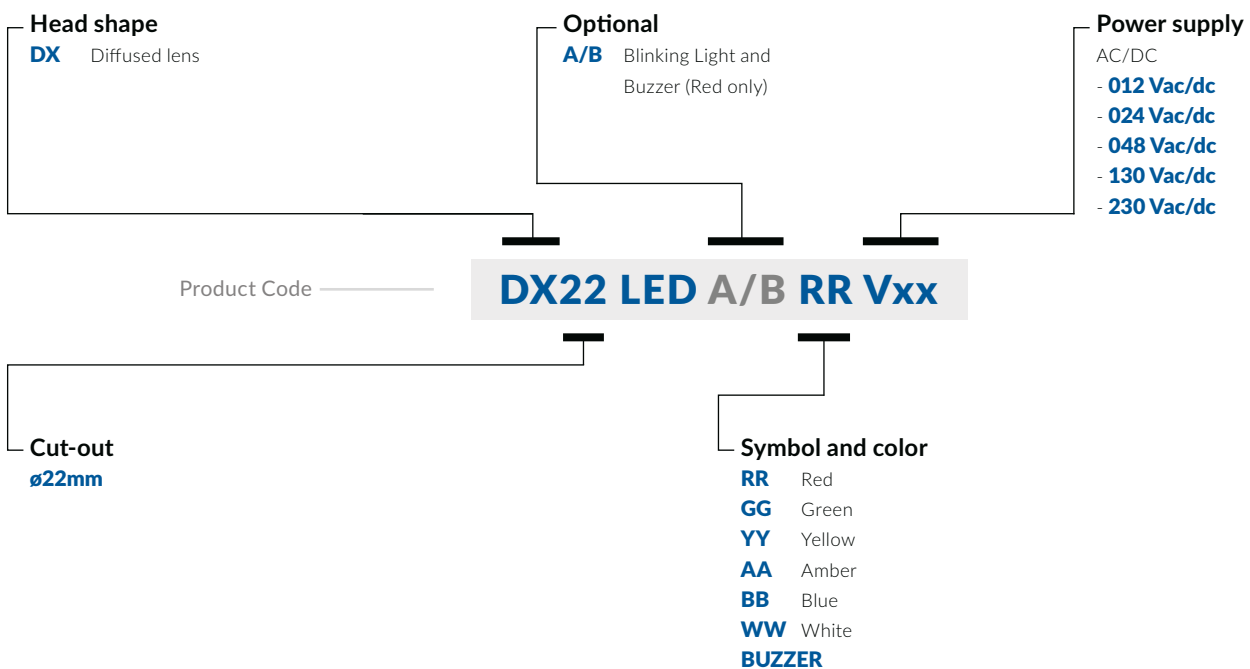
Entry Level

Product diagram Ø22mm



Entry Level

Product code structure Ø22mm



Entry Level

Pilot Lights with integrated LED

DX22 - Screw terminals

Ø30
Head Ø30mm
Cut-out Ø22



Ø30
Head Ø30mm
Cut-out Ø22



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	DX22 LED RR Vxx	-
● Green	● Green	DX22 LED GG Vxx	-
● Yellow	● Yellow	DX22 LED YY Vxx	-
● Amber	● Amber	DX22 LED AA Vxx	-
● Blue	● Blue	DX22 LED BB Vxx	-
○ White	○ White	DX22 LED WW Vxx	-

Blinking Light + Acoustic

● Red	● Red	DX22 LED B/A RR Vxx	-
● Black	-	-	DX22 BUZZER Vxx

Entry Level

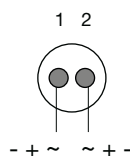
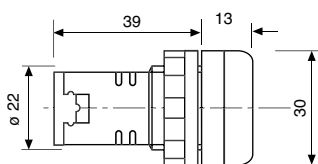
DX22 connections - Screw terminals

DX22

Screw terminal 14 AWG - 2,5mmq

Dimensions mm 1:2

Monocolor or Buzzer



board thickness 10 mm
clamping: threaded nut



LED Indicators

LED Indicators
with chromium plated
reflector

LED Indicators with chromium plated reflector

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP54**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

LED consumption: **15mA**

Weight: **16g (M18) - 20g (M24) - 30g - (M30)**

Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Available with inbuilt diode (PD) to avoid reverse feeding and Tropicalization treatment.



Optional Blinking Light.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

IEC CEI 20-22



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.

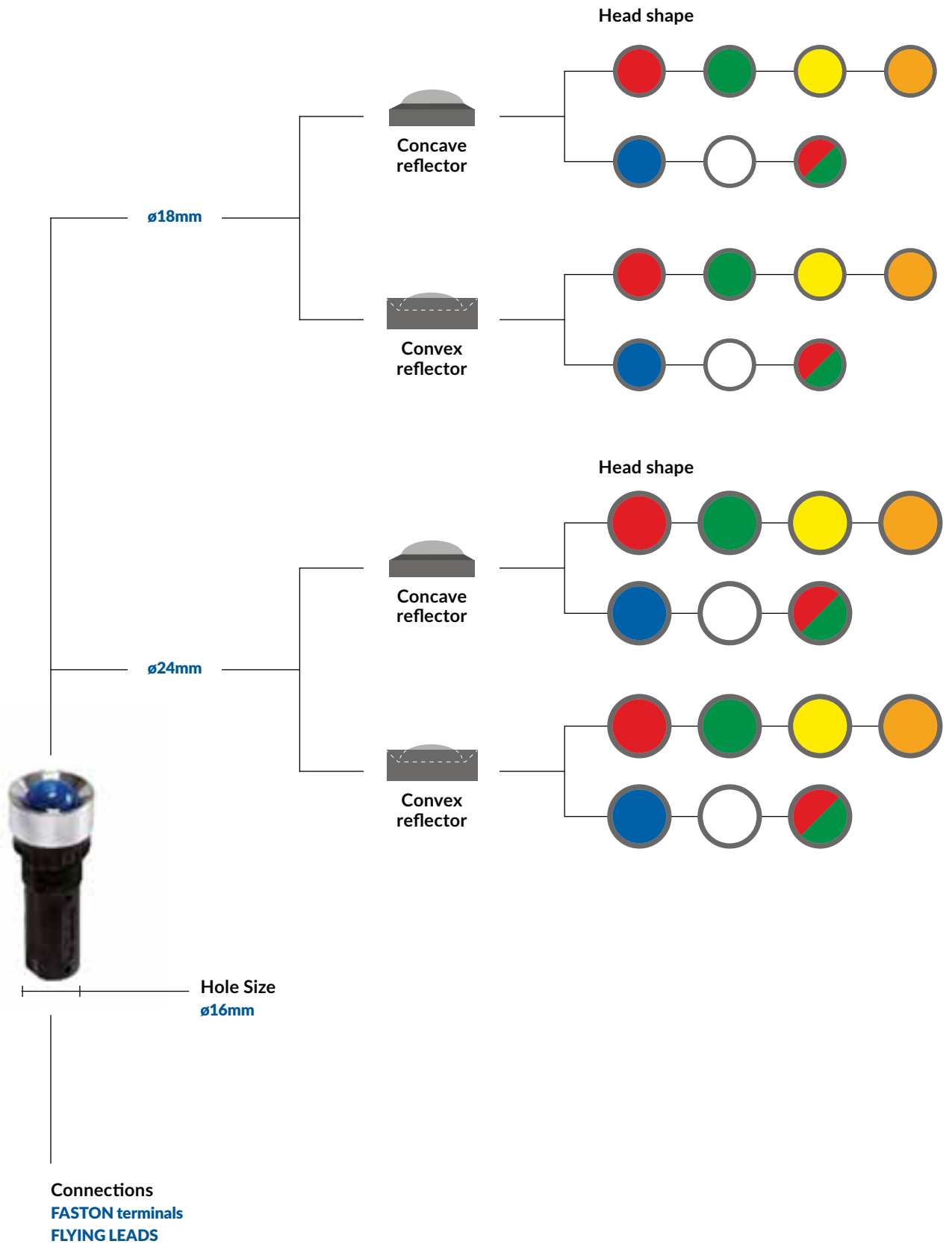


Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm, Screw terminals or Flying Leads.

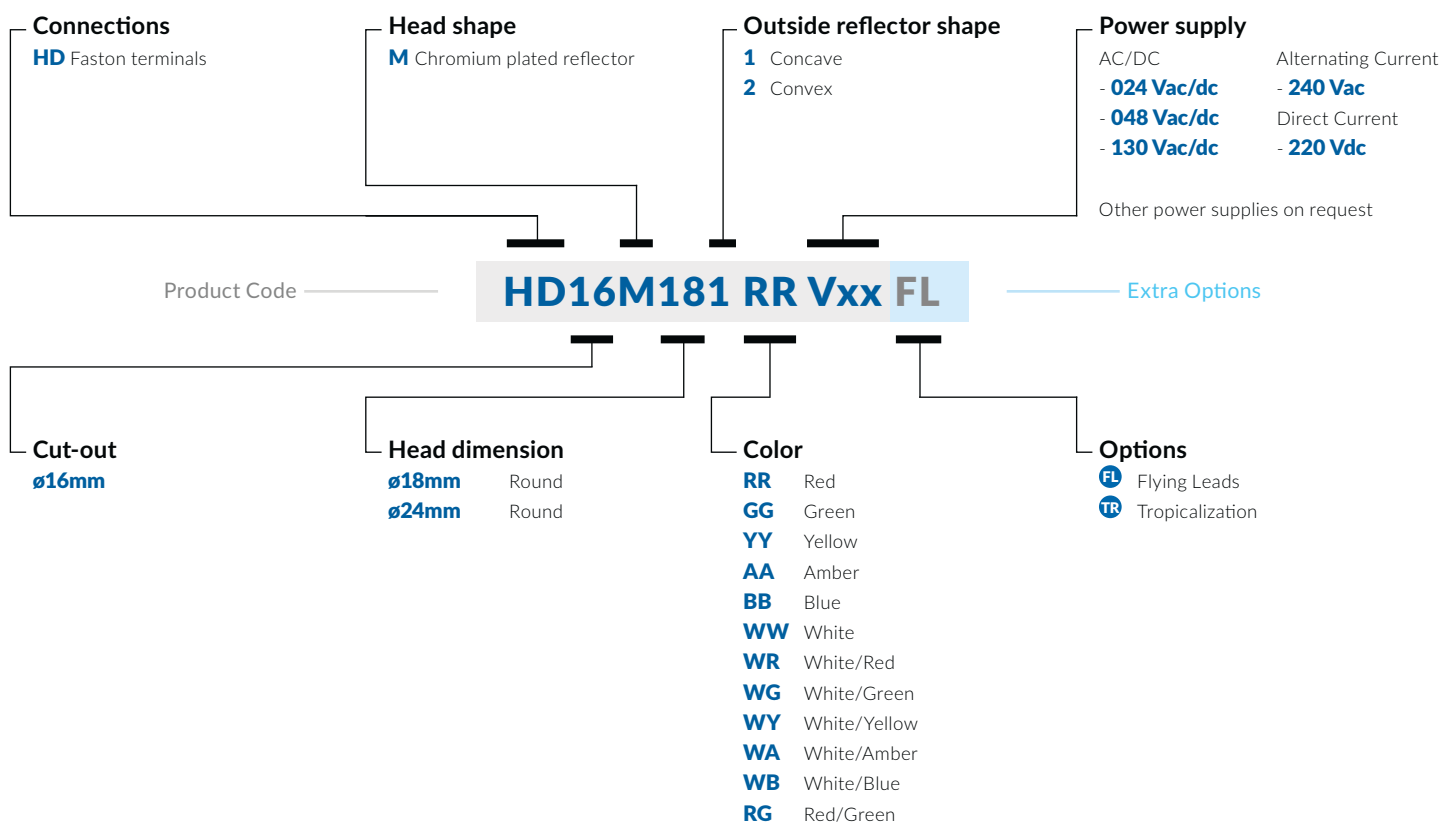


Product diagram Ø16mm

LED Indicators with chromium plated reflector



Product code structure Ø16mm

LED Indicators with chromium
plated reflector

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



HD16 M181 - Faston terminals

HD16 M182 - Faston terminals

LED Indicators with chromium plated reflector

Outside reflector M181

Head Ø18mm
Cut-out Ø16
LED diffuser: Ø13,50mm



Outside reflector M182

Head Ø18mm
Cut-out Ø16
LED diffuser: Ø13,5mm



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	HD16 M181 RR Vxx	HD16 M182 RR Vxx
● Green	● Green	HD16 M181 GG Vxx	HD16 M182 GG Vxx
● Yellow	● Yellow	HD16 M181 YY Vxx	HD16 M182 YY Vxx
● Amber	● Amber	HD16 M181 AA Vxx	HD16 M182 AA Vxx
● Blue	● Blue	HD16 M181 BB Vxx	HD16 M182 BB Vxx
○ White	○ White	HD16 M181 WW Vxx	HD16 M182 WW Vxx
		FL TR	FL TR
○ White	● Red	HD16 M181 WR Vxx	HD16 M182 WR Vxx
○ White	● Green	HD16 M181 WG Vxx	HD16 M182 WG Vxx
○ White	● Yellow	HD16 M181 WY Vxx	HD16 M182 WY Vxx
○ White	● Amber	HD16 M181 WA Vxx	HD16 M182 WA Vxx
○ White	● Blue	HD16 M181 WB Vxx	HD16 M182 WB Vxx
		FL TR	FL TR

Bicolor LED

○ White	● Red/Green	HD16 M181 RG Vxx	HD16 M182 RG Vxx
		FL TR	FL TR

HD16 M181 connections - Faston terminals

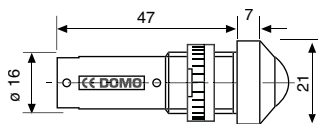
HD16 M182 connections - Faston terminals

LED Indicators with chromium

plated reflector

HD16 M181

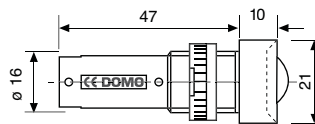
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

HD16 M182

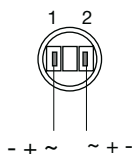
Dimensions mm 1:2



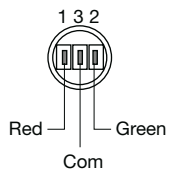
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

Monocolor



Bicolor



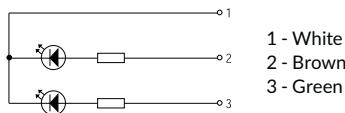
Flying Leads

Monocolor



1 - White
2 - Brown

Bicolor



1 - White
2 - Brown
3 - Green



HD16 M241 - Faston terminals

HD16 M242 - Faston terminals

LED Indicators with chromium plated reflector

Outside reflector M241

Head Ø18mm
Cut-out Ø16
LED diffuser: Ø19mm



Outside reflector M242

Head Ø18mm
Cut-out Ø16
LED diffuser: Ø19mm



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	HD16 M241 RR Vxx	HD16 M242 RR Vxx
● Green	● Green	HD16 M241 GG Vxx	HD16 M242 GG Vxx
● Yellow	● Yellow	HD16 M241 YY Vxx	HD16 M242 YY Vxx
● Amber	● Amber	HD16 M241 AA Vxx	HD16 M242 AA Vxx
● Blue	● Blue	HD16 M241 BB Vxx	HD16 M242 BB Vxx
○ White	○ White	HD16 M241 WW Vxx	HD16 M242 WW Vxx
		FL TR	FL TR
○ White	● Red	HD16 M241 WR Vxx	HD16 M242 WR Vxx
○ White	● Green	HD16 M241 WG Vxx	HD16 M242 WG Vxx
○ White	● Yellow	HD16 M241 WY Vxx	HD16 M242 WY Vxx
○ White	● Amber	HD16 M241 WA Vxx	HD16 M242 WA Vxx
○ White	● Blue	HD16 M241 WB Vxx	HD16 M242 WB Vxx
		FL TR	FL TR

Bicolor LED

○ White	● Red/Green	HD16 M241 RG Vxx	HD16 M242 RG Vxx
		FL TR	FL TR

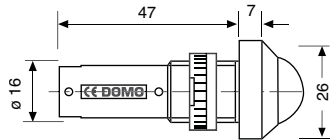
HD16 M241 connections - Faston terminals

HD16 M242 connections - Faston terminals

LED Indicators with chromium plated reflector

HD16 M241

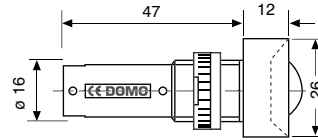
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

HD16 M242

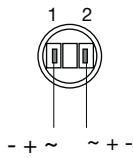
Dimensions mm 1:2



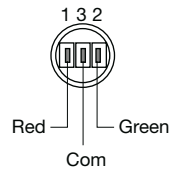
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

Monocolor

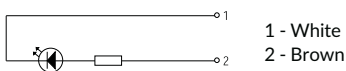


Bicolor



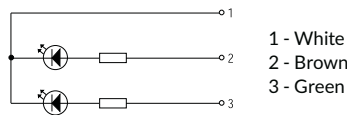
Flying Leads

Monocolor



1 - White
2 - Brown

Bicolor

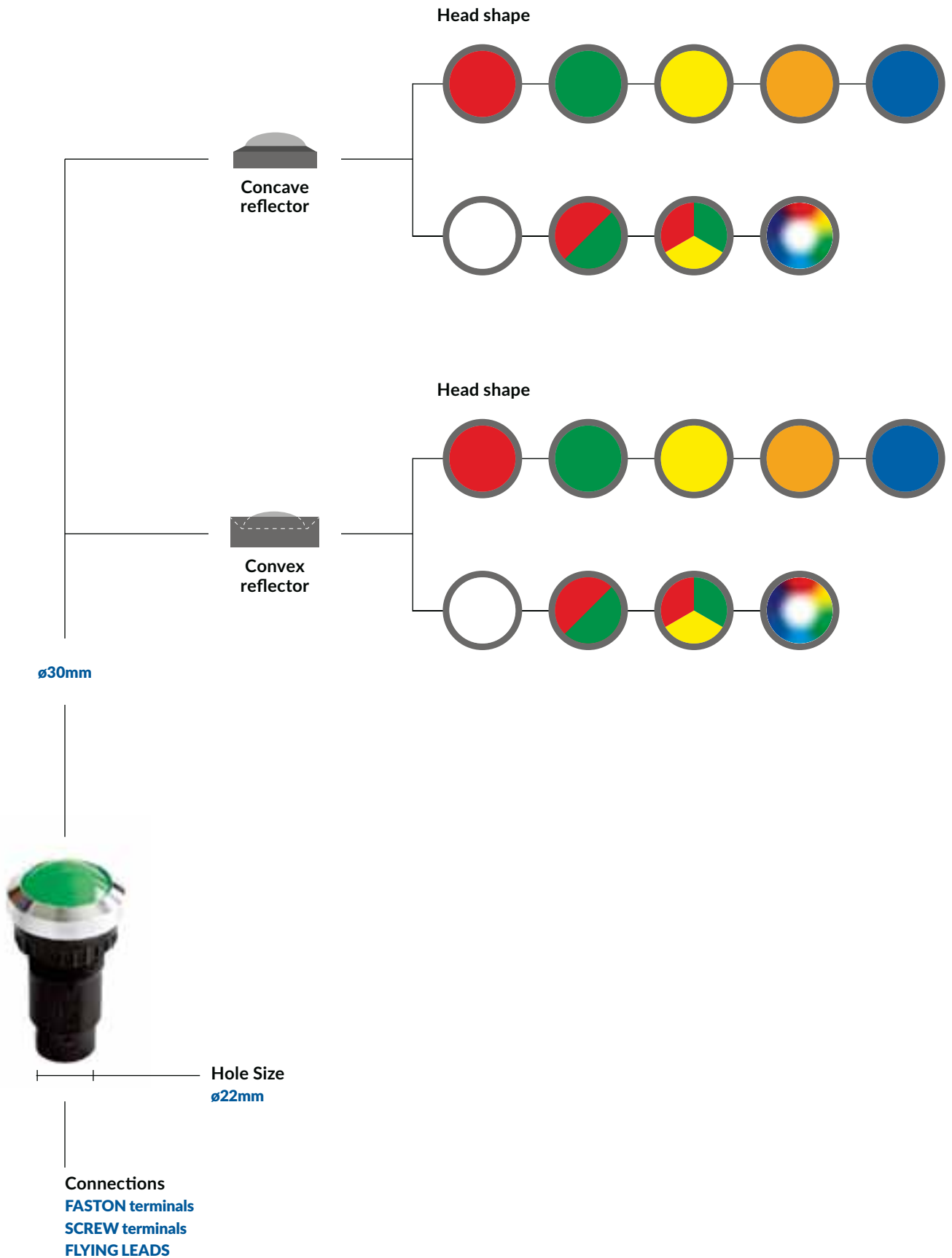


1 - White
2 - Brown
3 - Green

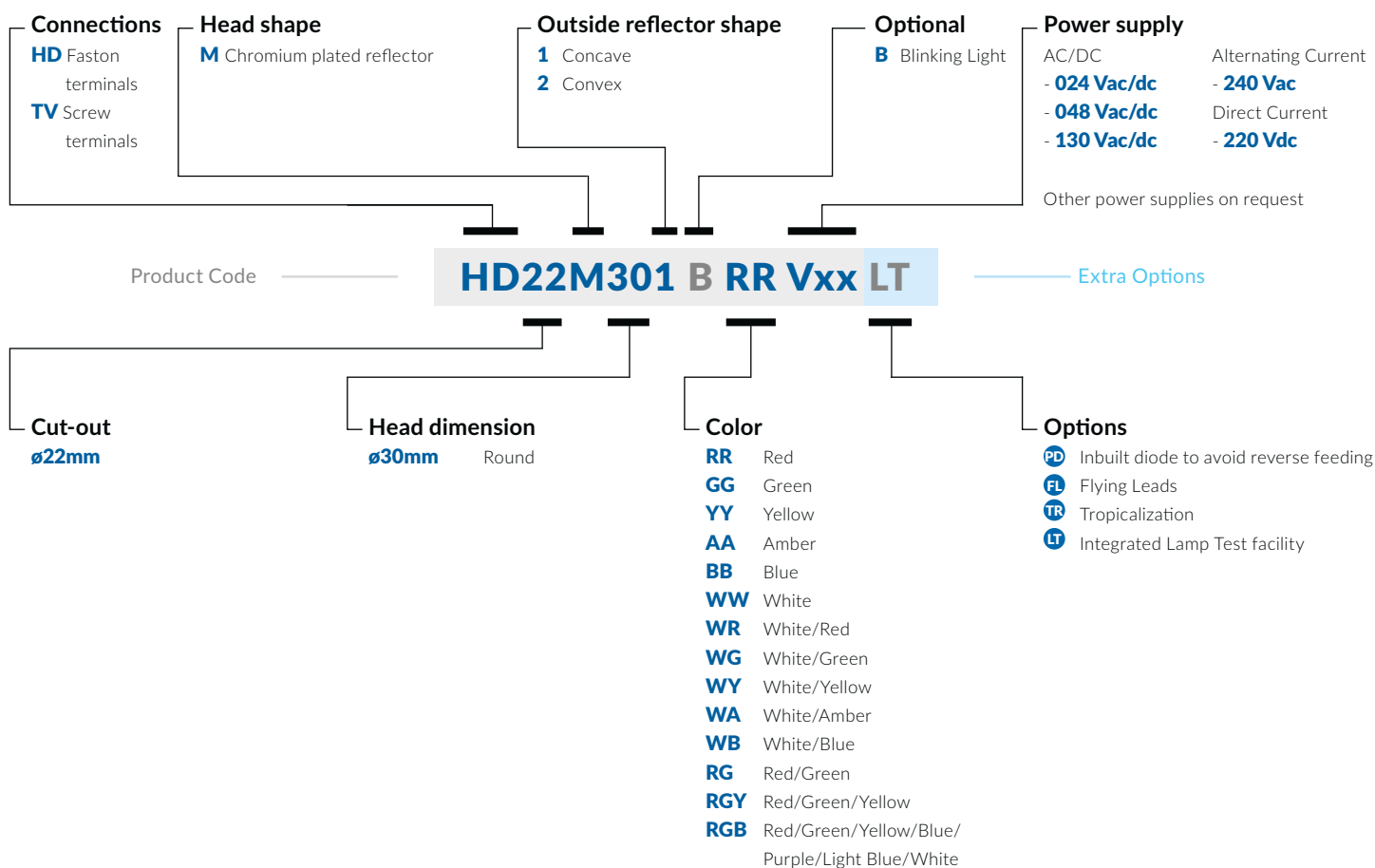


Product diagram Ø22mm

LED Indicators with chromium plated reflector



Product code structure Ø22mm

LED Indicators with chromium
plated reflector

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



HD22 M301 - Faston terminals

HD22 M302 - Faston terminals

LED Indicators with chromium plated reflector

Outside reflector M301

Head Ø30mm
Cut-out Ø22
LED diffuser: Ø24mm



Outside reflector M302

Head Ø30mm
Cut-out Ø22
LED diffuser: Ø24mm



Colors

LED diffuser	LED
--------------	-----

Standard type

● Red	● Red	HD22 M301 RR Vxx	HD22 M302 RR Vxx
● Green	● Green	HD22 M301 GG Vxx	HD22 M302 GG Vxx
● Yellow	● Yellow	HD22 M301 YY Vxx	HD22 M302 YY Vxx
● Amber	● Amber	HD22 M301 AA Vxx	HD22 M302 AA Vxx
● Blue	● Blue	HD22 M301 BB Vxx	HD22 M302 BB Vxx
○ White	○ White	HD22 M301 WW Vxx	HD22 M302 WW Vxx
		PD FL TR LT	PD FL TR LT
○ White	● Red	HD22 M301 WR Vxx	HD22 M302 WR Vxx
○ White	● Green	HD22 M301 WG Vxx	HD22 M302 WG Vxx
○ White	● Yellow	HD22 M301 WY Vxx	HD22 M302 WY Vxx
○ White	● Amber	HD22 M301 WA Vxx	HD22 M302 WA Vxx
○ White	● Blue	HD22 M301 WB Vxx	HD22 M302 WB Vxx
		PD FL TR LT	PD FL TR LT

Bicolor, Multicolor

○ White	● Red/Green	HD22 M301 RG Vxx	HD22 M302 RG Vxx
○ White	● Red/Green/Yellow/ Blue/Purple/ Light Blue/White	HD22 M301 RGB Vxx	HD22 M302 RGB Vxx
		FL TR	FL TR

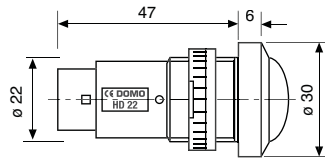
HD22 M301 connections - Faston terminals

HD22 M302 connections - Faston terminals

LED Indicators with chromium plated reflector

HD22 M301

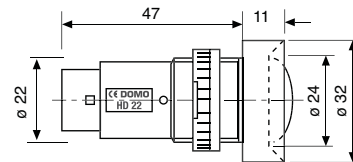
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

HD22 M302

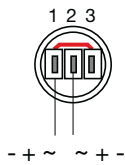
Dimensions mm 1:2



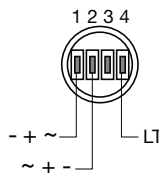
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

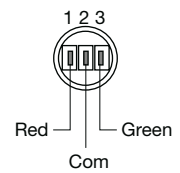
Monocolor



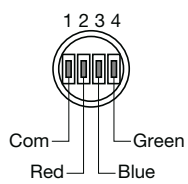
Monocolor + Lamp Test (LT)



Bicolor



Multicolor



- Red = ● Red
- Green = ● Green
- Blue = ● Blue
- Red + ● Green = ● Yellow
- Red + ● Blue = ● Purple
- Green + ● Blue = ● L. Blue
- Red + ● Green + ● Blue = ○ White

**TV22 M301** - Screw terminals**TV22 M302** - Screw terminalsLED Indicators with chromium
plated reflector**Outside reflector M301**Head Ø30mm
Cut-out Ø22
LED diffuser: Ø24mm**Outside reflector M302**Head Ø30mm
Cut-out Ø22
LED diffuser: Ø24mm

Colors

LED diffuser | LED

Standard type

● Red	● Red	TV22 M301 RR Vxx	TV22 M302 RR Vxx
● Green	● Green	TV22 M301 GG Vxx	TV22 M302 GG Vxx
● Yellow	● Yellow	TV22 M301 YY Vxx	TV22 M302 YY Vxx
● Amber	● Amber	TV22 M301 AA Vxx	TV22 M302 AA Vxx
● Blue	● Blue	TV22 M301 BB Vxx	TV22 M302 BB Vxx
○ White	○ White	TV22 M301 WW Vxx	TV22 M302 WW Vxx
		PD FL TR LT	PD FL TR LT
○ White	● Red	TV22 M301 WR Vxx	TV22 M302 WR Vxx
○ White	● Green	TV22 M301 WG Vxx	TV22 M302 WG Vxx
○ White	● Yellow	TV22 M301 WY Vxx	TV22 M302 WY Vxx
○ White	● Amber	TV22 M301 WA Vxx	TV22 M302 WA Vxx
○ White	● Blue	TV22 M301 WB Vxx	TV22 M302 WB Vxx
		PD FL TR LT	PD FL TR LT

Bicolor, Tricolor and Multicolor

○ White	● Red/Green	TV22 M301 RG Vxx	TV22 M302 RG Vxx
○ White	● Red/Green/Yellow	TV22 M301 RGY Vxx	TV22 M302 RGY Vxx
○ White	● Red/Green/Yellow/ Blue/Purple/ Light Blue/White	TV22 M301 RGB Vxx	TV22 M302 RGB Vxx
		FL TR	FL TR

Blinking Light

● Red	● Red	TV22 M301 B RR Vxx	TV22 M302 B RR Vxx
● Green	● Green	TV22 M301 B GG Vxx	TV22 M302 B GG Vxx
● Yellow	● Yellow	TV22 M301 B YY Vxx	TV22 M302 B YY Vxx
● Amber	● Amber	TV22 M301 B AA Vxx	TV22 M302 B AA Vxx
● Blue	● Blue	TV22 M301 B BB Vxx	TV22 M302 B BB Vxx
○ White	○ White	TV22 M301 B WW Vxx	TV22 M302 B WW Vxx
		FL TR Max 130V no LT	FL TR Max 130V no LT

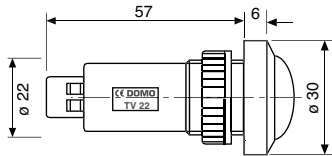
TV22 M301 connections - Screw terminals

TV22 M302 connections - Screw terminals

LED Indicators with chromium plated reflector

TV22 M301

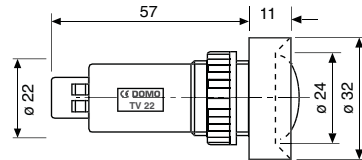
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22 M302

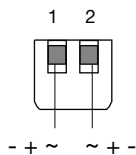
Dimensions mm 1:2



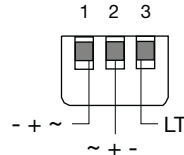
board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

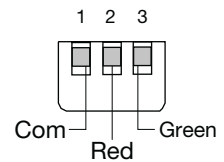
Monocolor



Monocolor + Lamp Test (LT)

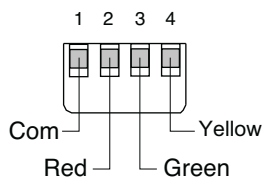


Bicolor

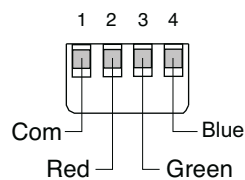


Screw terminal 16 AWG - 0,75 ÷ 1,0mmq

Tricolor



Multicolor



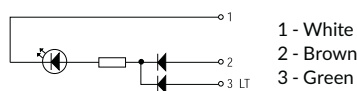
Red	=	Red
Green	=	Green
Blue	=	Blue
Red + Green	=	Yellow
Red + Blue	=	Purple
Green + Blue	=	L. Blue
Red + Green + Blue	=	White

Flying Leads

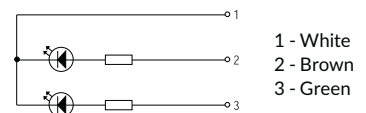
Monocolor



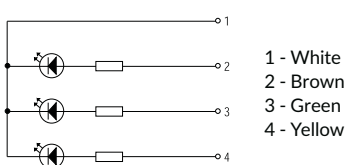
Monocolor + Lamp Test (LT)



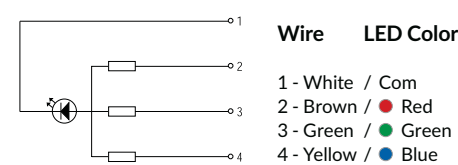
Bicolor



Tricolor



Multicolor



Wire LED Color

1 - White / Com
2 - Brown / Red
3 - Green / Green
4 - Yellow / Blue

Brown	=	Red
Green	=	Green
Yellow	=	Blue
Brown + Green	=	Yellow
Brown + Yellow	=	Purple
Yellow + Green	=	L. Blue
Brown + Green + Yellow	=	White



LED Indicators

Flat LED display Indicators

Flat LED display Indicators

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP54**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

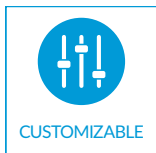
LED consumption: **20mA**

Weight: **8g (16/18) - 10g (16/24) - 15g (22/30) - 30g (22/48)**

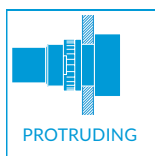
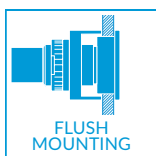
Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Customer can choose the LED color and the text or symbols inside the diffuser.



B type solution with low-profile Flush Mounting, to limit the external dimensions and improve the design of the panel.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

CEI EN 50266

CEI 20-22

IEC 60332-3



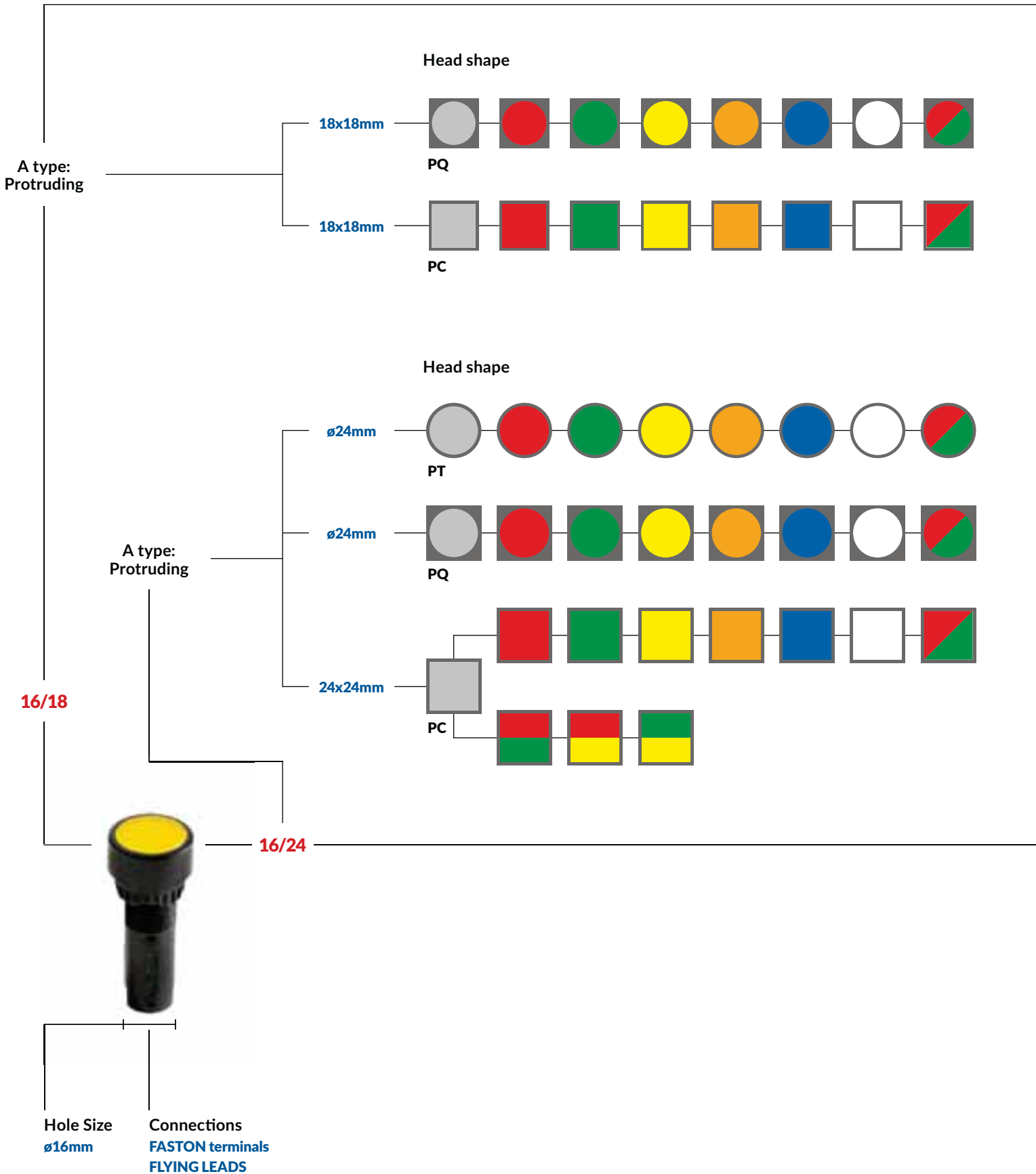
Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.



Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm, Screw terminals or Flying Leads.

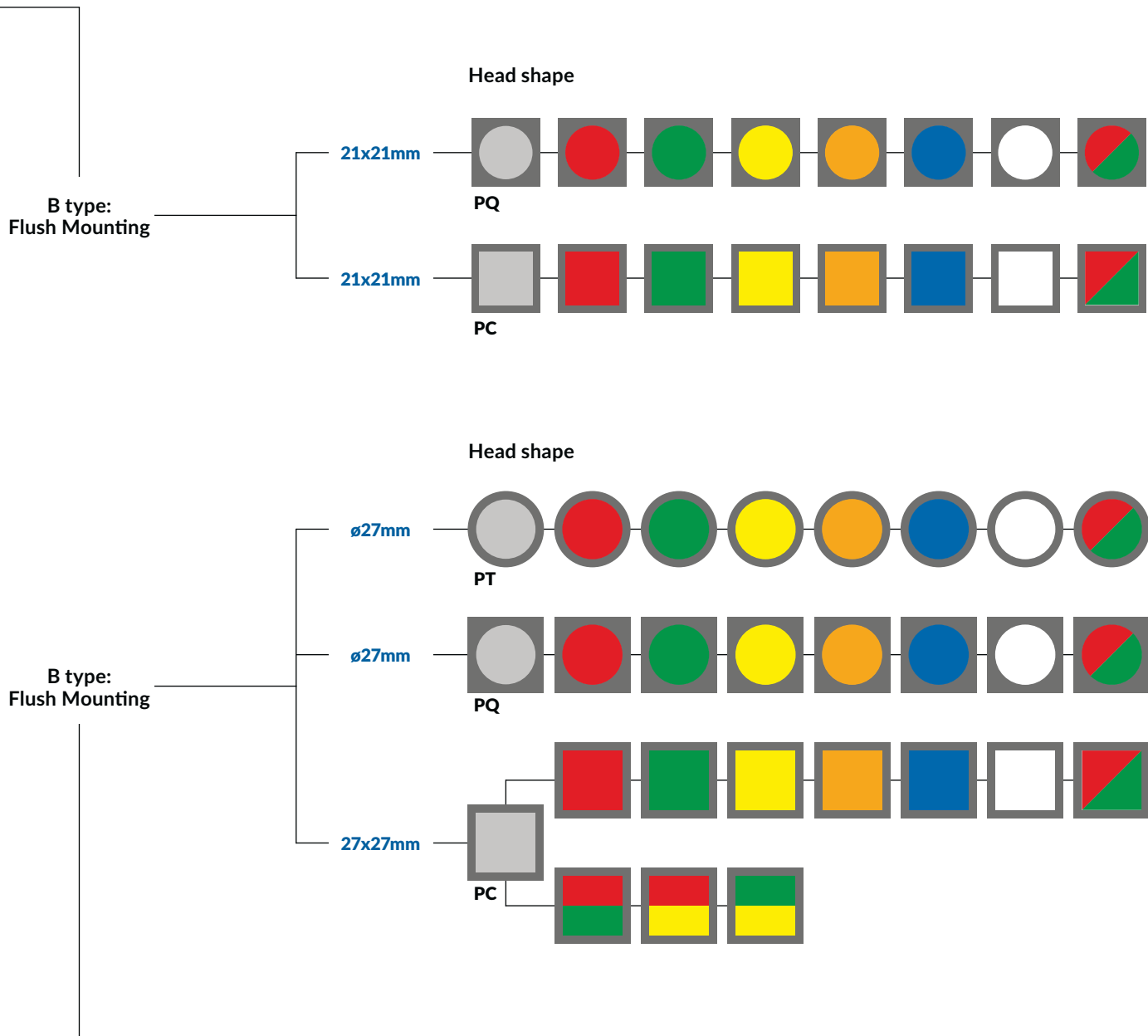


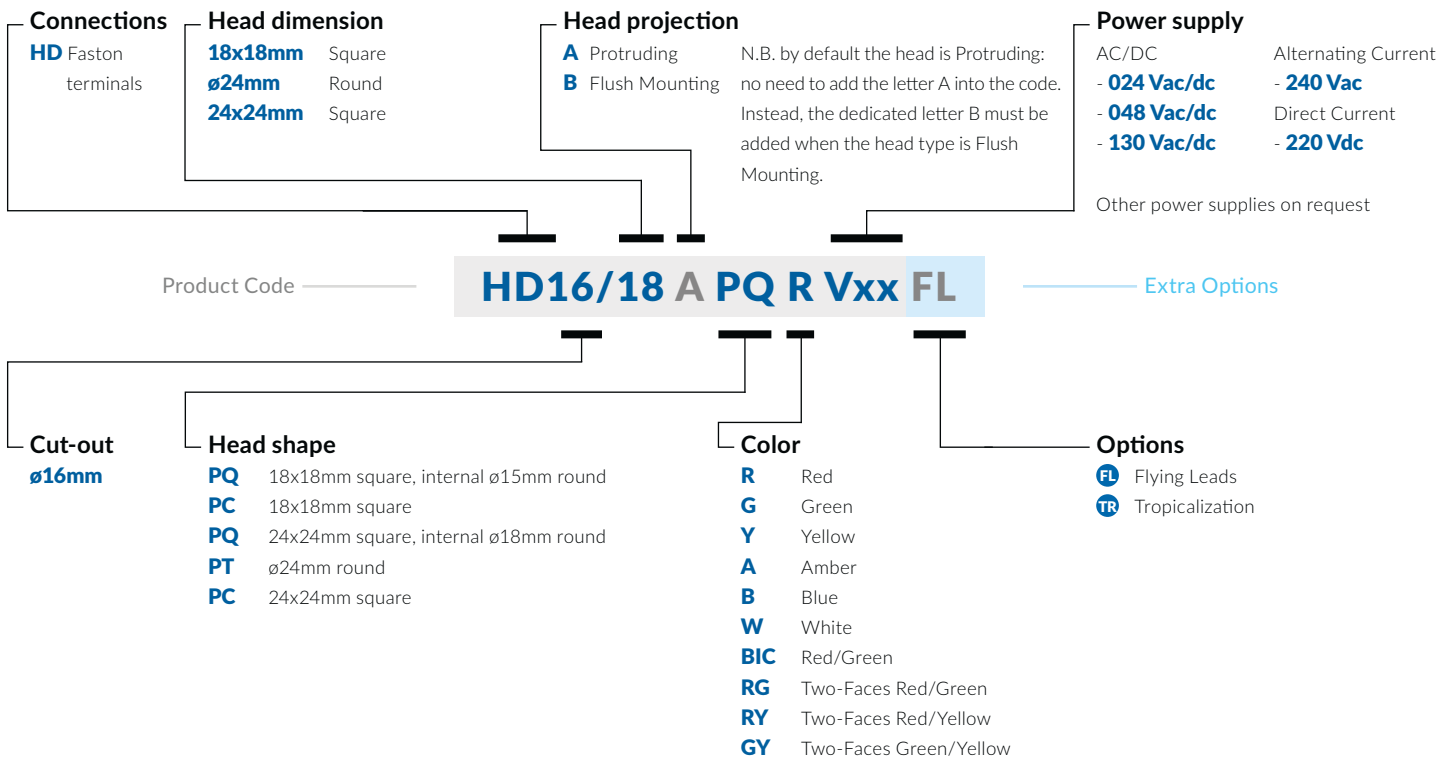
Available with Inbuilt Diode (PD) to avoid reverse feeding and Tropicalization treatment.



Product diagram Ø16mm

Flat LED display Indicators





Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

HD16/18 PQ - Faston terminals

Flat LED display Indicators

HD16/18 PC - Faston terminals

PQ A type
Protruding
Head 18x18mm
Cut-out Ø16mm



PQ B type
Flush Mounting
Head 21x21mm
Cut-out 18x18mm



PC A type
Protruding
Head 18x18mm
Cut-out Ø16mm



PC B type
Flush Mounting
Head 21x21mm
Cut-out 18x18mm



Standard type



● Red	HD16/18 PQ R Vxx	HD16/18B PQ R Vxx	-	-
● Green	HD16/18 PQ G Vxx	HD16/18B PQ G Vxx	-	-
● Yellow	HD16/18 PQ Y Vxx	HD16/18B PQ Y Vxx	-	-
● Amber	HD16/18 PQ A Vxx	HD16/18B PQ A Vxx	-	-
● Blue	HD16/18 PQ B Vxx	HD16/18B PQ B Vxx	-	-
○ White	HD16/18 PQ W Vxx	HD16/18B PQ W Vxx	-	-
	FL TR	FL TR		



● Red	-	-	HD16/18 PC R Vxx	HD16/18B PC R Vxx
● Green	-	-	HD16/18 PC G Vxx	HD16/18B PC G Vxx
● Yellow	-	-	HD16/18 PC Y Vxx	HD16/18B PC Y Vxx
● Amber	-	-	HD16/18 PC A Vxx	HD16/18B PC A Vxx
● Blue	-	-	HD16/18 PC B Vxx	HD16/18B PC B Vxx
○ White	-	-	HD16/18 PC W Vxx	HD16/18B PC W Vxx
			FL TR	FL TR

Bicolor LED, white lens



● Red/Green	HD16/18 PQ BIC Vxx	HD16/18B PQ BIC Vxx	-	-
	FL TR	FL TR		

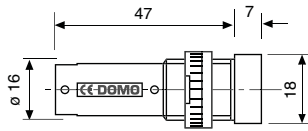


● Red/Green	-	-	HD16/18 PC BIC Vxx	HD16/18B PC BIC Vxx
			FL TR	FL TR



HD16/18 PQ - HD16/18 PC

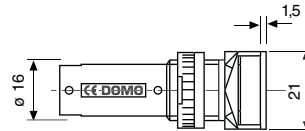
Dimensions mm 1:2



A type
Protruding

board thickness 10 mm
clamping: threaded nut

Dimensions mm 1:2

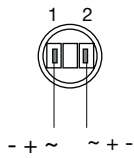


B type
Flush
Mounting

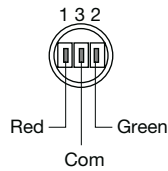
board thickness 1 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

Monocolor

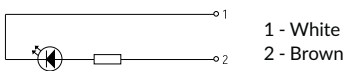


Bicolor

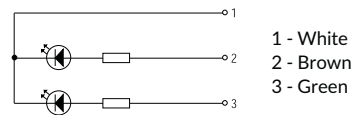


Flying Leads

Monocolor



Bicolor



HD16/24 PT - Faston terminals

Flat LED display Indicators

HD16/24 PQ - Faston terminals

PT A type
Protruding
Head Ø24mm
Cut-out Ø16mm



PT B type
Flush Mounting
Head Ø27mm
Cut-out Ø24mm



PQ A type
Protruding
Head 24x24mm
Cut-out Ø16mm



PQ B type
Flush Mounting
Head 27x27mm
Cut-out 24x24mm



Standard type



● Red	HD16/24 PT R Vxx	HD16/24B PT R Vxx	-	-
● Green	HD16/24 PT G Vxx	HD16/24B PT G Vxx	-	-
● Yellow	HD16/24 PT Y Vxx	HD16/24B PT Y Vxx	-	-
● Amber	HD16/24 PT A Vxx	HD16/24B PT A Vxx	-	-
● Blue	HD16/24 PT B Vxx	HD16/24B PT B Vxx	-	-
○ White	HD16/24 PT W Vxx	HD16/24B PT W Vxx	-	-

FL TR

FL TR



● Red	-	-	HD16/24 PQ R Vxx	HD16/24B PQ R Vxx
● Green	-	-	HD16/24 PQ G Vxx	HD16/24B PQ G Vxx
● Yellow	-	-	HD16/24 PQ Y Vxx	HD16/24B PQ Y Vxx
● Amber	-	-	HD16/24 PQ A Vxx	HD16/24B PQ A Vxx
● Blue	-	-	HD16/24 PQ B Vxx	HD16/24B PQ B Vxx
○ White	-	-	HD16/24 PQ W Vxx	HD16/24B PQ W Vxx

FL TR

FL TR

Bicolor LED, white lens



● Red/Green	HD16/24 PT BIC Vxx	HD16/24B PT BIC Vxx	-	-
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FL TR

FL TR



● Red/Green	-	-	HD16/24 PQ BIC Vxx	HD16/24B PQ BIC Vxx
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FL TR

FL TR



PC A type
Protruding
Head 24x24mm
Cut-out Ø16mm



PC B type
Flush Mounting
Head 27x27mm
Cut-out 24x24mm



Standard type



● Red	HD16/24 PC R Vxx	HD16/24B PC R Vxx
● Green	HD16/24 PC G Vxx	HD16/24B PC G Vxx
● Yellow	HD16/24 PC Y Vxx	HD16/24B PC Y Vxx
● Amber	HD16/24 PC A Vxx	HD16/24B PC A Vxx
● Blue	HD16/24 PC B Vxx	HD16/24B PC B Vxx
○ White	HD16/24 PC W Vxx	HD16/24B PC W Vxx
	FL TR	FL TR

Bicolor LED, white lens



● Red/Green	HD16/24 PC BIC Vxx	HD16/24B PC BIC Vxx
	FL TR	FL TR

Two-Faces



a Red b Green	HD16/24 PC RG Vxx	HD16/24B PC RG Vxx
	FL TR no 240 Vac	FL TR no 240 Vac



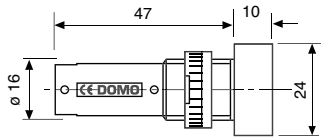
a Red b Yellow	HD16/24 PC RY Vxx	HD16/24B PC RY Vxx
	FL TR no 240 Vac	FL TR no 240 Vac



a Green b Yellow	HD16/24 PC GY Vxx	HD16/24B PC GY Vxx
	FL TR no 240 Vac	FL TR no 240 Vac

HD16/24 PT - HD16/24 PQ - HD16/24 PC

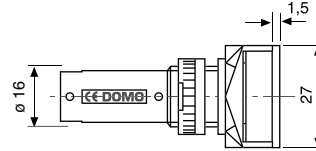
Dimensions mm 1:2



A type
Protruding

board thickness 10 mm
clamping: threaded nut

Dimensions mm 1:2

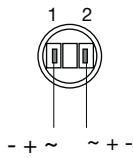


B type
Flush
Mounting

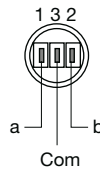
board thickness 1 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

Monocolor

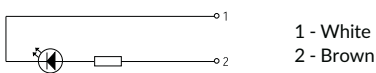


Bicolor and Two-Faces

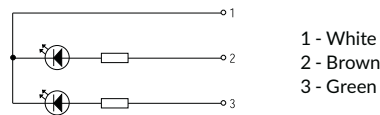


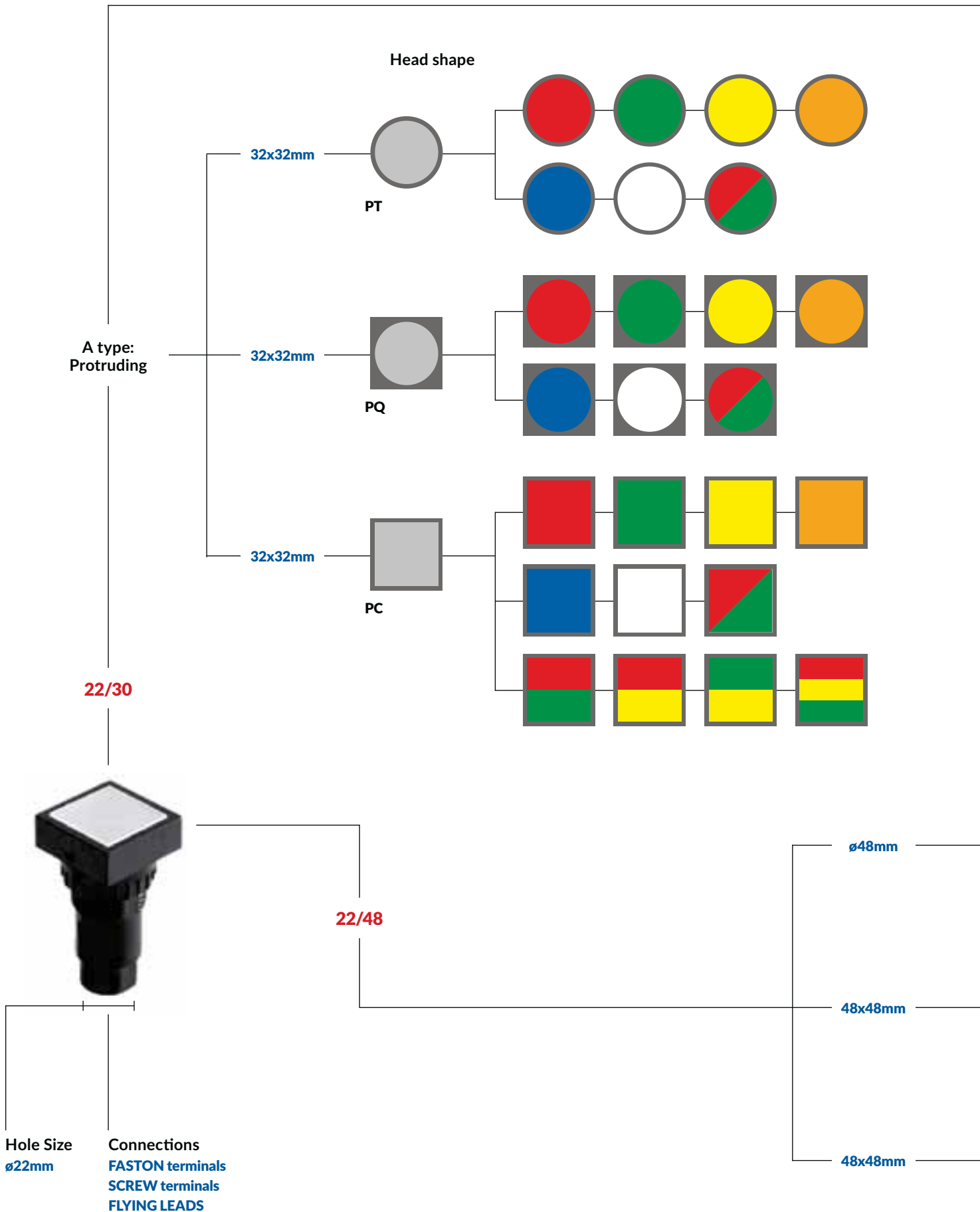
Flying Leads

Monocolor



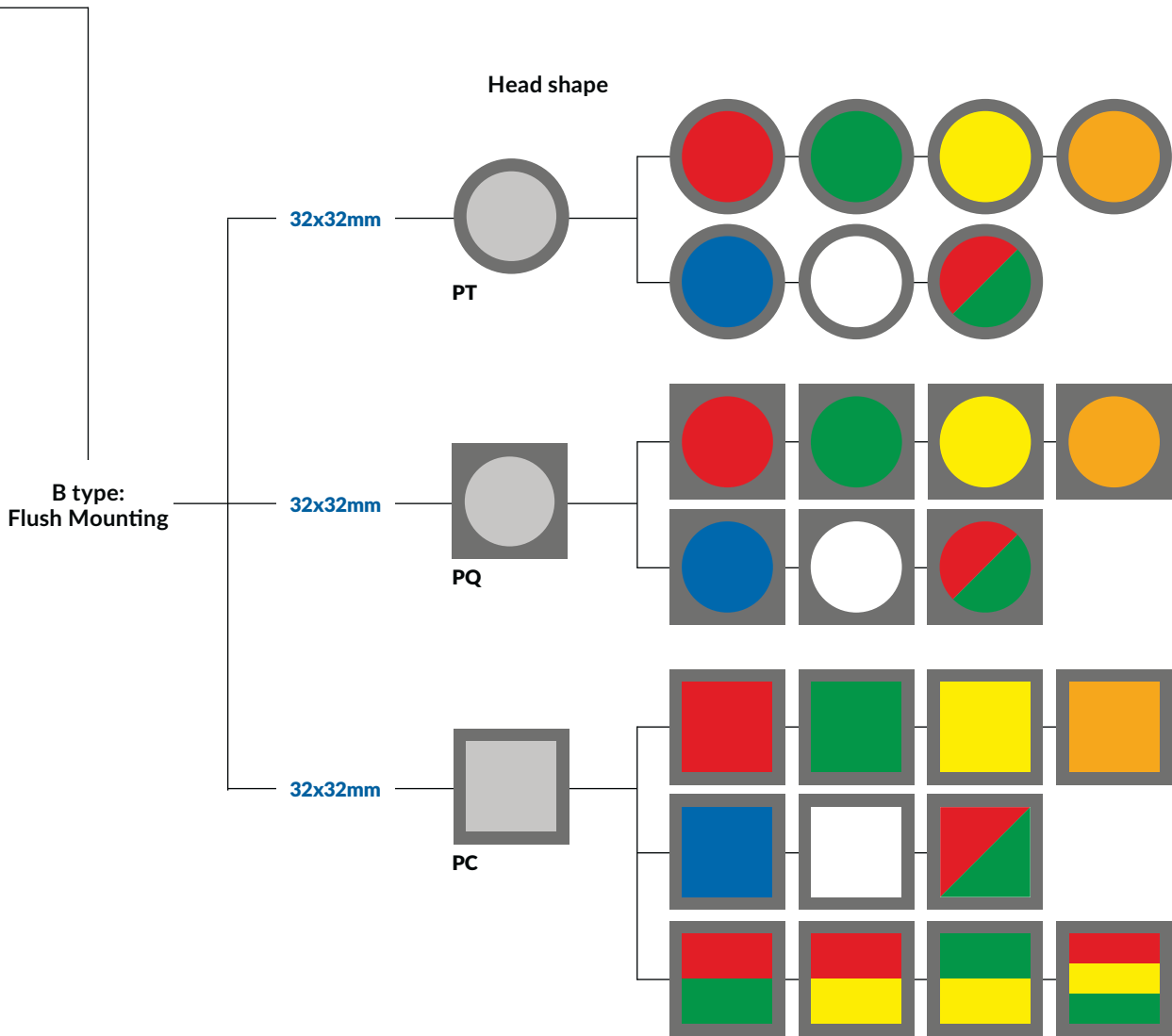
Bicolor and Two-Faces



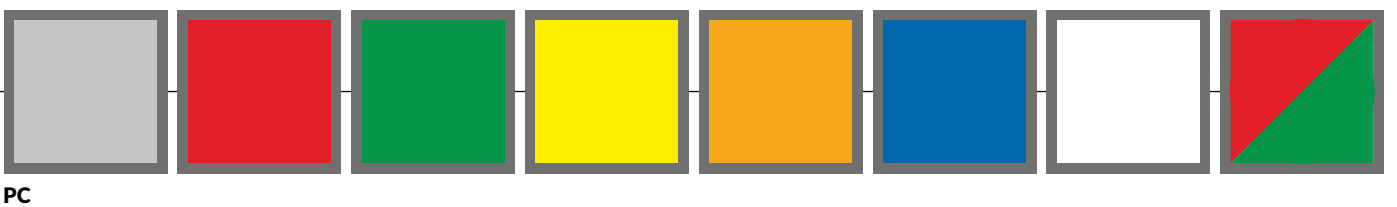
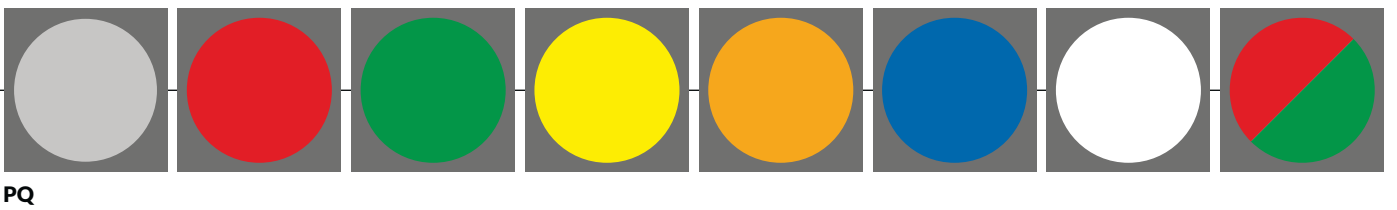
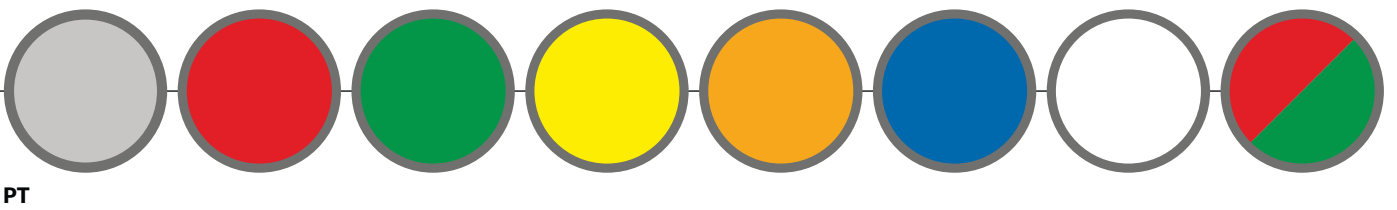


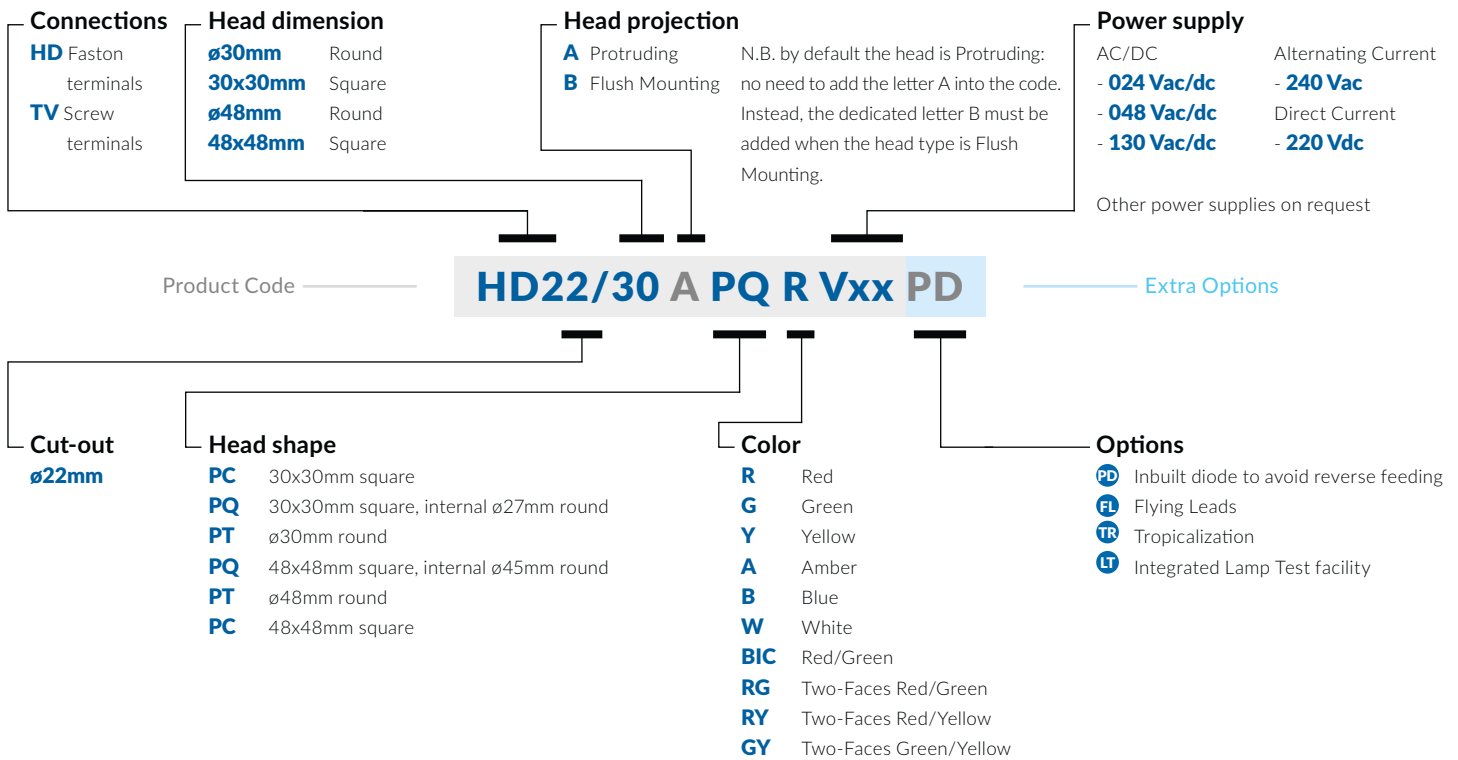
Product diagram Ø22mm

Flat LED display Indicators



Head shape





Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

HD22/30 PT - Faston terminals

Flat LED display Indicators

HD22/30 PQ - Faston terminals

PT A type
Protruding
Head Ø30mm
Cut-out Ø22mm



PT B type
Flush Mounting
Head Ø32mm
Cut-out Ø30mm



PQ A type
Protruding
Head 30x30mm
Cut-out Ø22mm



PQ B type
Flush Mounting
Head 32x32mm
Cut-out 30x30mm



Standard type



● Red	HD22/30 PT R Vxx	HD22/30B PT R Vxx	-	-
● Green	HD22/30 PT G Vxx	HD22/30B PT G Vxx	-	-
● Yellow	HD22/30 PT Y Vxx	HD22/30B PT Y Vxx	-	-
● Amber	HD22/30 PT A Vxx	HD22/30B PT A Vxx	-	-
● Blue	HD22/30 PT B Vxx	HD22/30B PT B Vxx	-	-
○ White	HD22/30 PT W Vxx	HD22/30B PT W Vxx	-	-

PD FL TR LT

PD FL TR LT



● Red	-	-	HD22/30 PQ R Vxx	HD22/30B PQ R Vxx
● Green	-	-	HD22/30 PQ G Vxx	HD22/30B PQ G Vxx
● Yellow	-	-	HD22/30 PQ Y Vxx	HD22/30B PQ Y Vxx
● Amber	-	-	HD22/30 PQ A Vxx	HD22/30B PQ A Vxx
● Blue	-	-	HD22/30 PQ B Vxx	HD22/30B PQ B Vxx
○ White	-	-	HD22/30 PQ W Vxx	HD22/30B PQ W Vxx

PD FL TR LT

PD FL TR LT

Bicolor LED, white lens



● Red/Green	HD22/30 PT BIC Vxx	HD22/30B PT BIC Vxx	-	-
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PD FL TR LT

PD FL TR LT



● Red/Green	-	-	HD22/30 PQ BIC Vxx	HD22/30B PQ BIC Vxx
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PD FL TR LT

PD FL TR LT



PC A type
Protruding
Head 30x30mm
Cut-out Ø22mm



PC B type
Flush Mounting
Head 32x32mm
Cut-out 30x30mm



Standard type



● Red	HD22/30 PC R Vxx	HD22/30B PC R Vxx
● Green	HD22/30 PC G Vxx	HD22/30B PC G Vxx
● Yellow	HD22/30 PC Y Vxx	HD22/30B PC Y Vxx
● Amber	HD22/30 PC A Vxx	HD22/30B PC A Vxx
● Blue	HD22/30 PC B Vxx	HD22/30B PC B Vxx
○ White	HD22/30 PC W Vxx	HD22/30B PC W Vxx
	PD FL TR LT	PD FL TR LT

Bicolor LED, white lens



● Red/Green	HD22/30 PC BIC Vxx	HD22/30B PC BIC Vxx
	PD FL TR LT	PD FL TR LT

Two-Faces



a Red b Green	HD22/30 PC RG Vxx	HD22/30B PC RG Vxx
	PD FL TR LT	PD FL TR LT



a Red b Yellow	HD22/30 PC RY Vxx	HD22/30B PC RY Vxx
	PD FL TR LT	PD FL TR LT



a Green b Yellow	HD22/30 PC GY Vxx	HD22/30B PC GY Vxx
	PD FL TR LT	PD FL TR LT

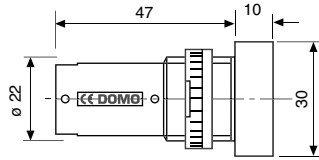
Three-Faces



a Red b Yellow c Green	HD22/30 PC RYG Vxx	HD22/30B PC RYG Vxx
	PD FL TR LT no 240 Vac	PD FL TR LT no 240 Vac

HD22/30 PT - HD22/30 PQ - HD22/30 PC

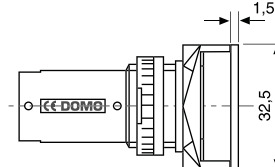
Dimensions mm 1:2



A type
Protruding

board thickness 10 mm
clamping: threaded nut

Dimensions mm 1:2

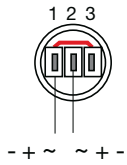


B type
Flush
Mounting

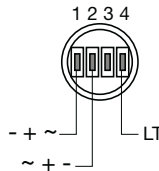
board thickness 1 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

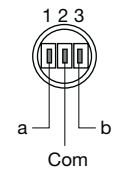
Monocolor



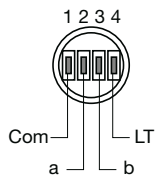
Monocolor + Lamp Test (LT)



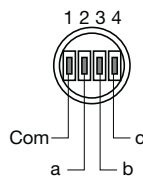
Bicolor and Two-Faces



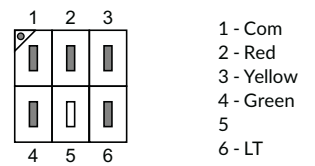
Two-Faces + Lamp Test (LT)



Three-Faces



Three-Faces + Lamp Test (LT)



**TV22/30 PT** - Screw terminals**TV22/30 PQ** - Screw terminals

PT A type
Protruding
Head Ø30mm
Cut-out Ø22mm



PT B type
Flush Mounting
Head Ø32mm
Cut-out Ø30mm



PQ A type
Protruding
Head 30x30mm
Cut-out Ø22mm



PQ B type
Flush Mounting
Head 32x32mm
Cut-out 30x30mm



Standard type



● Red	TV22/30 PT R Vxx	TV22/30B PT R Vxx	-	-
● Green	TV22/30 PT G Vxx	TV22/30B PT G Vxx	-	-
● Yellow	TV22/30 PT Y Vxx	TV22/30B PT Y Vxx	-	-
● Amber	TV22/30 PT A Vxx	TV22/30B PT A Vxx	-	-
● Blue	TV22/30 PT B Vxx	TV22/30B PT B Vxx	-	-
○ White	TV22/30 PT W Vxx	TV22/30B PT W Vxx	-	-
	PD FL TR LT	PD FL TR LT		



● Red	-	-	TV22/30 PQ R Vxx	TV22/30B PQ R Vxx
● Green	-	-	TV22/30 PQ G Vxx	TV22/30B PQ G Vxx
● Yellow	-	-	TV22/30 PQ Y Vxx	TV22/30B PQ Y Vxx
● Amber	-	-	TV22/30 PQ A Vxx	TV22/30B PQ A Vxx
● Blue	-	-	TV22/30 PQ B Vxx	TV22/30B PQ B Vxx
○ White	-	-	TV22/30 PQ W Vxx	TV22/30B PQ W Vxx
			PD FL TR LT	PD FL TR LT

Bicolor LED, white lens



● Red/Green	TV22/30 PT BIC Vxx	TV22/30B PT BIC Vxx	-	-
	PD FL TR LT	PD FL TR LT		



● Red/Green	-	-	TV22/30 PQ BIC Vxx	TV22/30B PQ BIC Vxx
			PD FL TR LT	PD FL TR LT

TV22/30 PC - Screw terminals

Flat LED display Indicators

PC A type
Protruding
Head 30x30mm
Cut-out Ø22mm



PC B type
Flush Mounting
Head 32x32mm
Cut-out 30x30mm



Standard type



● Red	TV22/30 PC R Vxx	TV22/30B PC R Vxx
● Green	TV22/30 PC G Vxx	TV22/30B PC G Vxx
● Yellow	TV22/30 PC Y Vxx	TV22/30B PC Y Vxx
● Amber	TV22/30 PC A Vxx	TV22/30B PC A Vxx
● Blue	TV22/30 PC B Vxx	TV22/30B PC B Vxx
○ White	TV22/30 PC W Vxx	TV22/30B PC W Vxx
	PD FL TR LT	PD FL TR LT

Bicolor LED, white lens



● Red/Green	TV22/30 PC BIC Vxx	TV22/30B PC BIC Vxx
	PD FL TR LT	PD FL TR LT

Two-Faces



a Red b Green	TV22/30 PC RG Vxx	TV22/30B PC RG Vxx
	PD FL TR LT	PD FL TR LT



a Red b Yellow	TV22/30 PC RY Vxx	TV22/30B PC RY Vxx
	PD FL TR LT	PD FL TR LT



a Green b Yellow	TV22/30 PC GY Vxx	TV22/30B PC GY Vxx
	PD FL TR LT	PD FL TR LT

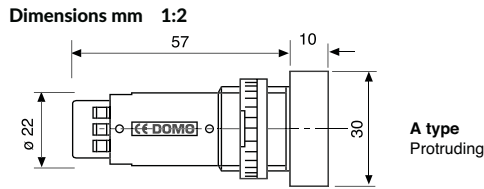
Three-Faces



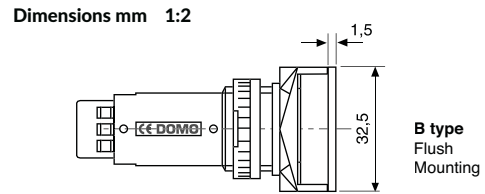
a Red b Yellow c Green	TV22/30 PC RYG Vxx	TV22/30B PC RYG Vxx
	PD FL TR LT no 240 Vac	PD FL TR LT no 240 Vac



TV22/30 PT - TV22/30 PQ - TV22/30 PC



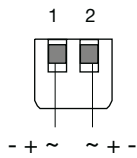
board thickness 10 mm
clamping: threaded nut



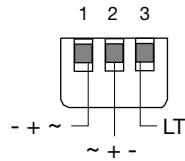
board thickness 1 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

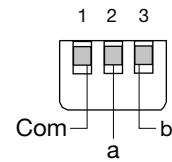
Monocolor



Monocolor + Lamp Test (LT)

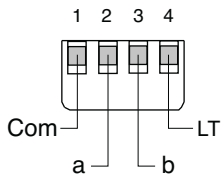


Bicolor and Two-Faces

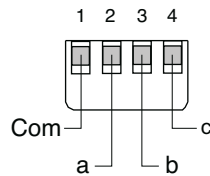


Screw terminal 16 AWG - 0,75 ÷ 1,0mmq

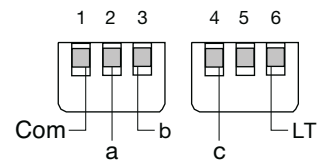
Bicolor + (LT) and Two-Faces + (LT)



Three-Faces

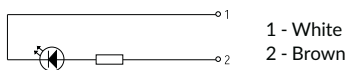


Three-Faces + Lamp Test (LT)

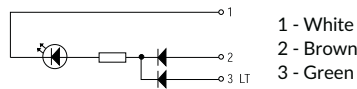


Flying Leads

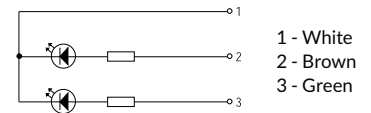
Monocolor



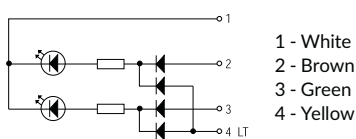
Monocolor + Lamp Test (LT)



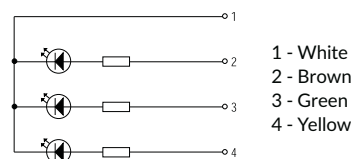
Bicolor and Two-Faces



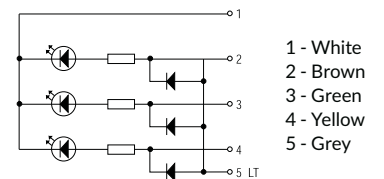
Two-Faces + Lamp Test (LT)



Three-Faces



Three-Faces + Lamp Test (LT)



TV22/48 PT - Screw terminals

Flat LED display Indicators

TV22/48 PQ - Screw terminals

PT
Protruding
Head Ø48mm
Cut-out Ø22mm



PQ
Protruding
Head 48x48mm
Cut-out Ø22mm



Standard type



● Red	TV22/48 PT R Vxx	-
● Green	TV22/48 PT G Vxx	-
● Yellow	TV22/48 PT Y Vxx	-
● Amber	TV22/48 PT A Vxx	-
● Blue	TV22/48 PT B Vxx	-
○ White	TV22/48 PT W Vxx	-

PD FL TR LT



● Red	-	TV22/48 PQ R Vxx
● Green	-	TV22/48 PQ G Vxx
● Yellow	-	TV22/48 PQ Y Vxx
● Amber	-	TV22/48 PQ A Vxx
● Blue	-	TV22/48 PQ B Vxx
○ White	-	TV22/48 PQ W Vxx

PD FL TR LT

Bicolor LED, white lens



● Red/Green	TV22/48 PT RG Vxx	-
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PD FL TR LT



● Red/Green	-	TV22/48 PQ RG Vxx
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PD FL TR LT



PC
Protruding
Head 48x48mm
Cut-out Ø22mm



Standard type



● Red	TV22/48 PC R Vxx
● Green	TV22/48 PC G Vxx
● Yellow	TV22/48 PC Y Vxx
● Amber	TV22/48 PC A Vxx
● Blue	TV22/48 PC B Vxx
○ White	TV22/48 PC W Vxx

PD FL TR LT

Bicolor LED, white lens



● Red/Green	TV22/48 PC RG Vxx
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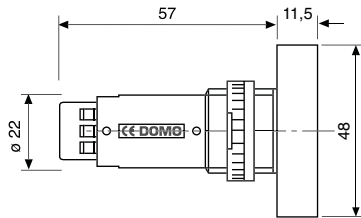
PD FL TR LT

TV22/48 connections - Screw terminals

Flat LED display Indicators

TV22/48 PT - TV22/48 PQ - TV22/48 PC

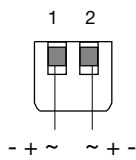
Dimensions mm 1:2



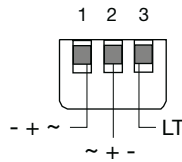
board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

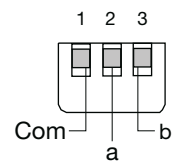
Monocolor



Monocolor + Lamp Test (LT)



Bicolor

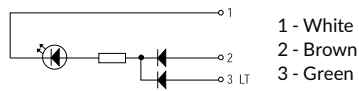


Flying Leads

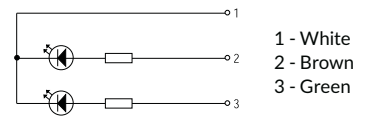
Monocolor



Monocolor + Lamp Test (LT)



Bicolor





LED Indicators

AmpiLED display Indicators

AmpiLED display Indicators

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP54**

Not replaceable AmpiLEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

LED consumption: **S1 15mA - S2 30mA - S3 20mA**

Weight: **9,5g (16 24) - 19g (16 48) - 28g (16 72)**

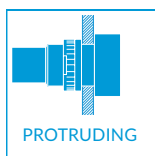
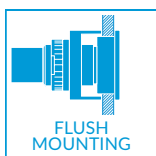
Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Customer can choose the LED colors, their arrangement and the text next to the LEDs. Easy label replacement, freely exchangeable at any time.



B type solution with low-profile Flush Mounting, to limit the external dimensions and improve the design of the panel.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

External Lamp Test not available

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

CEI EN 50266

CEI 20-22

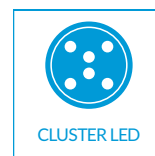
IEC 60332-3



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.



Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm or Flying Leads.

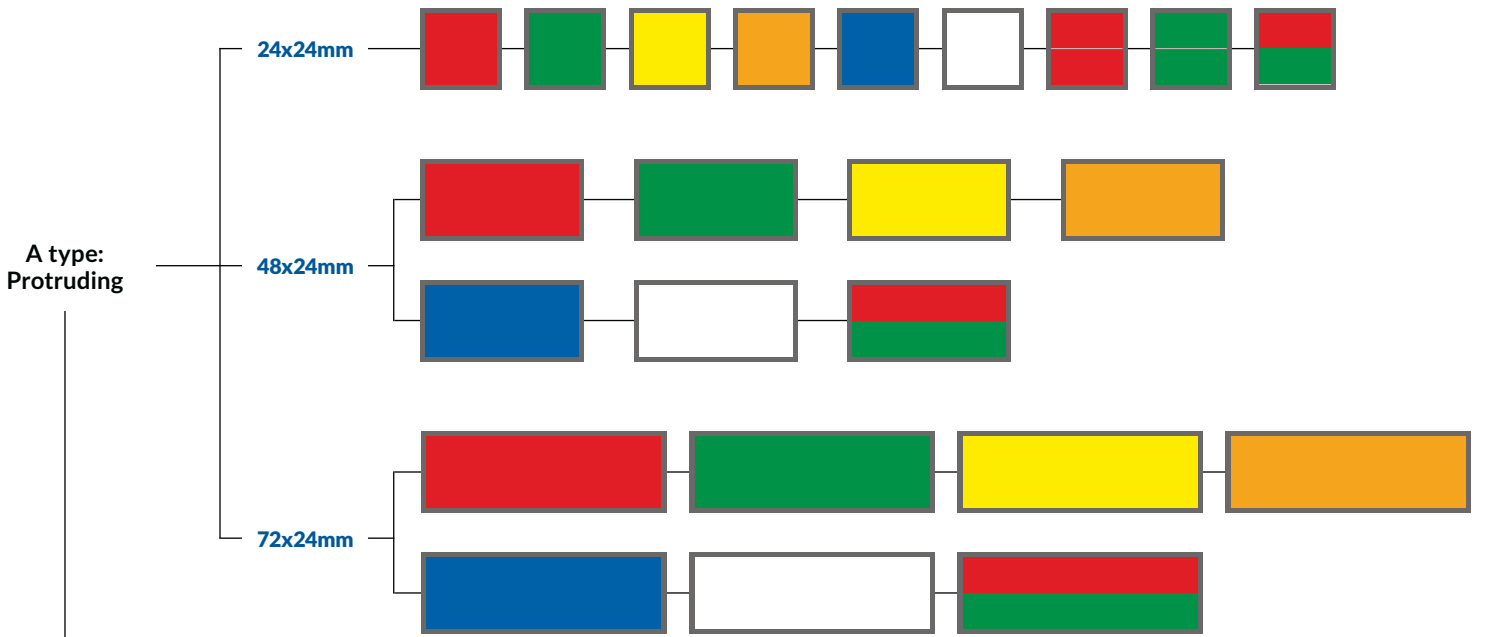


Tropicalization treatment available on request.

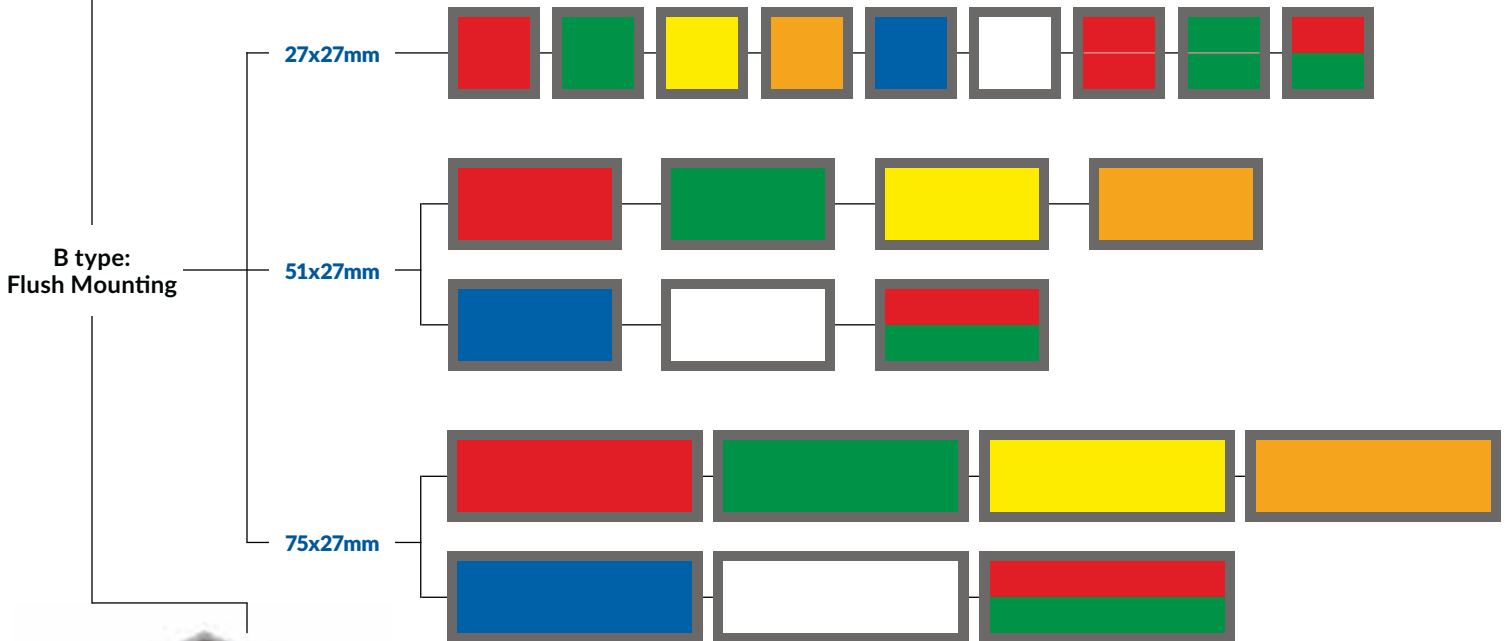
Extra bright visibility thanks to the powerful Cluster LED (available only for HL16 48 and HL16 72).



Head shape



Head shape

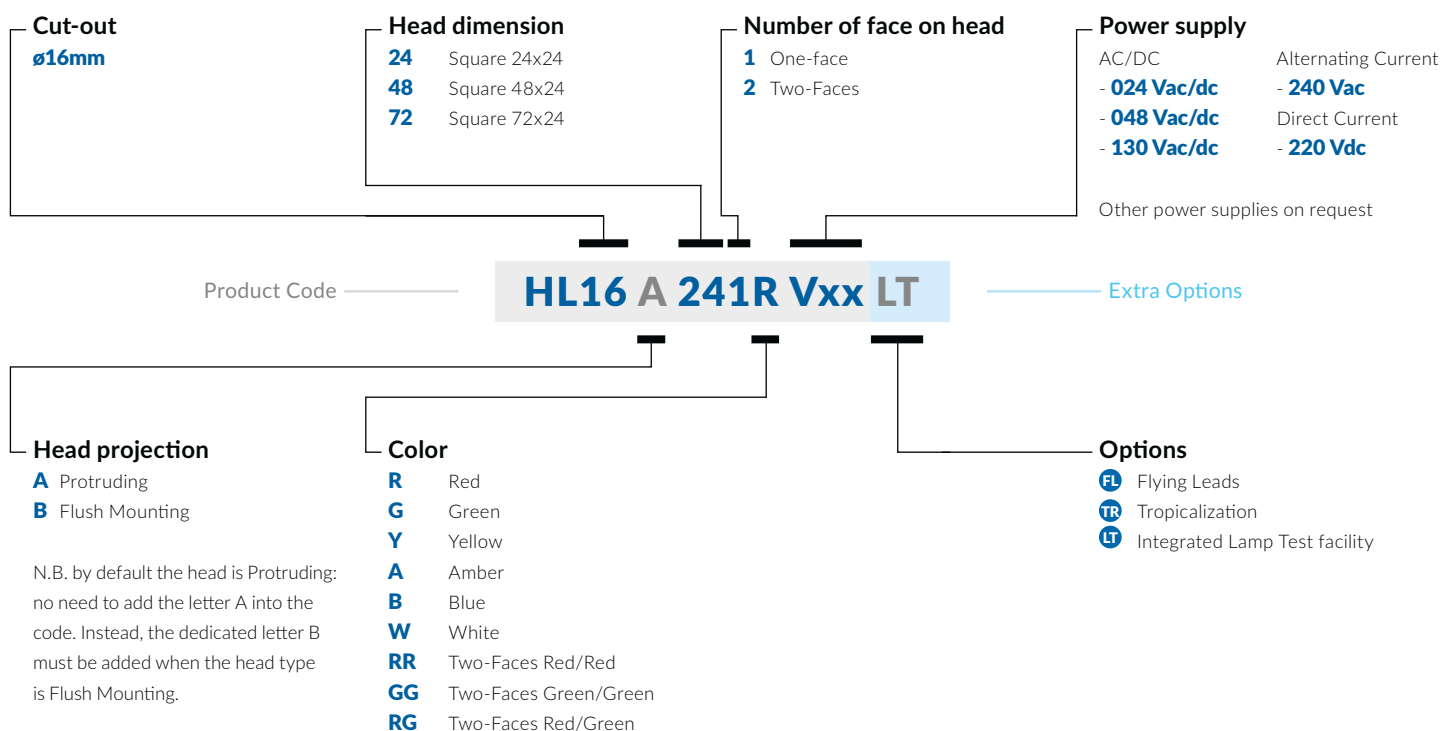


Connections
FASTON terminals
FLYING LEADS

Hole Size
Ø16mm

Product code structure Ø16mm

AmpILED display Indicators



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



HL 16 24 A type
Protruding
Head 24x24mm
Cut-out Ø16mm



HL 16 24 B type
Flush Mounting
Head 27x27mm
Cut-out 24x24mm



Standard type



- Red
- Green
- Yellow
- Amber
- Blue
- White

HL16 241R Vxx
HL16 241G Vxx
HL16 241Y Vxx
HL16 241A Vxx
HL16 241B Vxx
HL16 241W Vxx

HL16B 241R Vxx
HL16B 241G Vxx
HL16B 241Y Vxx
HL16B 241A Vxx
HL16B 241B Vxx
HL16B 241W Vxx



Two-Faces



a Red
b Red

HL16 242RR Vxx

HL16B 242RR Vxx



a Green
b Green

HL16 242GG Vxx

HL16B 242GG Vxx



a Red
b Green

HL16 242RG Vxx

HL16B 242RG Vxx



HL16 48 - Faston terminals

AmpILED display Indicators

HL 16 48 A type
 Protruding
 Head 24x48mm
 Cut-out Ø16mm



HL 16 48 B type
 Flush Mounting
 Head 27x51mm
 Cut-out 24x48 mm



Standard type



- Red
- Green
- Yellow
- Amber
- Blue
- White

HL16 481R Vxx
 HL16 481G Vxx
 HL16 481Y Vxx
 HL16 481A Vxx
 HL16 481B Vxx
 HL16 481W Vxx

HL16B 481R Vxx
 HL16B 481G Vxx
 HL16B 481Y Vxx
 HL16B 481A Vxx
 HL16B 481B Vxx
 HL16B 481W Vxx



Two-Faces



a Red
 b Green

HL16 482RG Vxx

HL16B 482RG Vxx





HD 16 72 A type
Protruding
Head 24x72mm
Cut-out Ø16mm



HD 16 72 B type
Flush Mounting
Head 27x75mm
Cut-out 24x72mm



Standard type



● Red	HD16 721R Vxx	HD16B 721R Vxx
● Green	HD16 721G Vxx	HD16B 721G Vxx
● Yellow	HD16 721Y Vxx	HD16B 721Y Vxx
● Amber	HD16 721A Vxx	HD16B 721A Vxx
● Blue	HD16 721B Vxx	HD16B 721B Vxx
○ White	HD16 721W Vxx	HD16B 721W Vxx
	FL TR LT	FL TR LT

Two-Faces



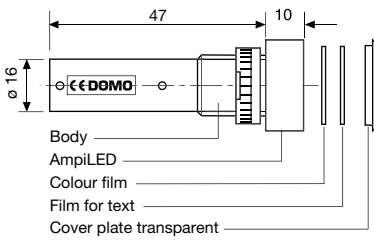
a Red b Green	HD16 722RG Vxx	HD16B 722RG Vxx
	FL TR	FL TR

HL16 24 connections - Faston terminals

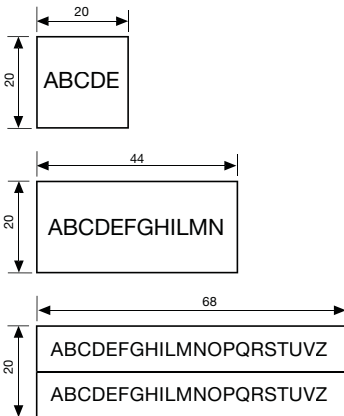
AmpILED display Indicators

HL16 48 connections - Faston terminals

HL16 72 connections - Faston terminals

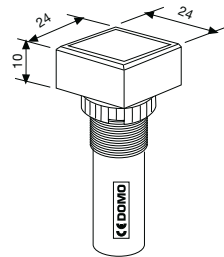


Writing example

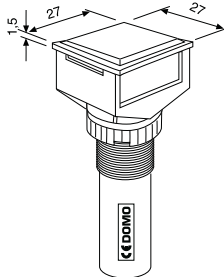


HL16 24

Dimensions mm 1:2



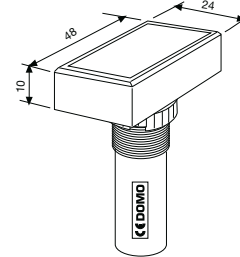
A type
Protruding



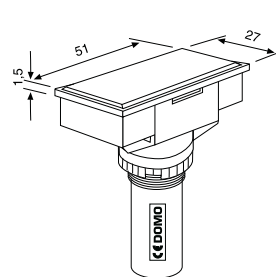
B type
Flush Mounting

HL16 48

Dimensions mm 1:2



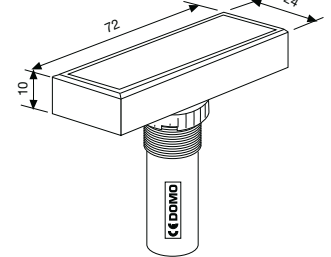
A type
Protruding



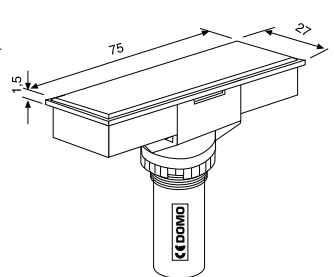
B type
Flush Mounting

HL16 72

Dimensions mm 1:2



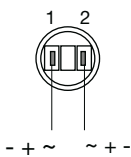
A type
Protruding



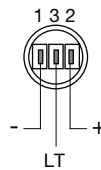
B type
Flush Mounting

Faston terminals Tabs 2,8 x 0,8mm

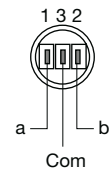
Monocolor



Monocolor + Lamp Test (LT)

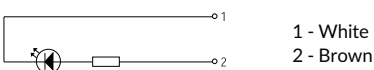


Two-Faces

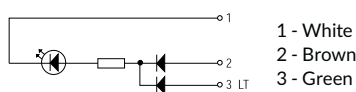


Flying Leads

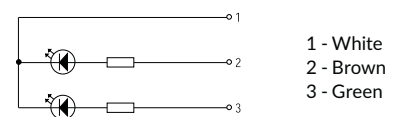
Monocolor



Monocolor + Lamp Test (LT)



Two-Faces





LED Indicators

Small LED Indicators

Small LED Indicators

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **VL821/822: IP54**
H8T/H12T: IP64

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

LED consumption: **15mA**

Weight: **1,8g (VL8 - H8) - 4g (H12)**

Customs tariff: **85389091**



Tropicalization treatment available on request.



Optional Blinking Light 028V only.

Supply voltage +/- 10%

Direct Current - 15-20mA

2-4 Vdc

6 Vdc

12 Vdc

28 Vdc

48 Vdc

110-130 Vdc

230 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

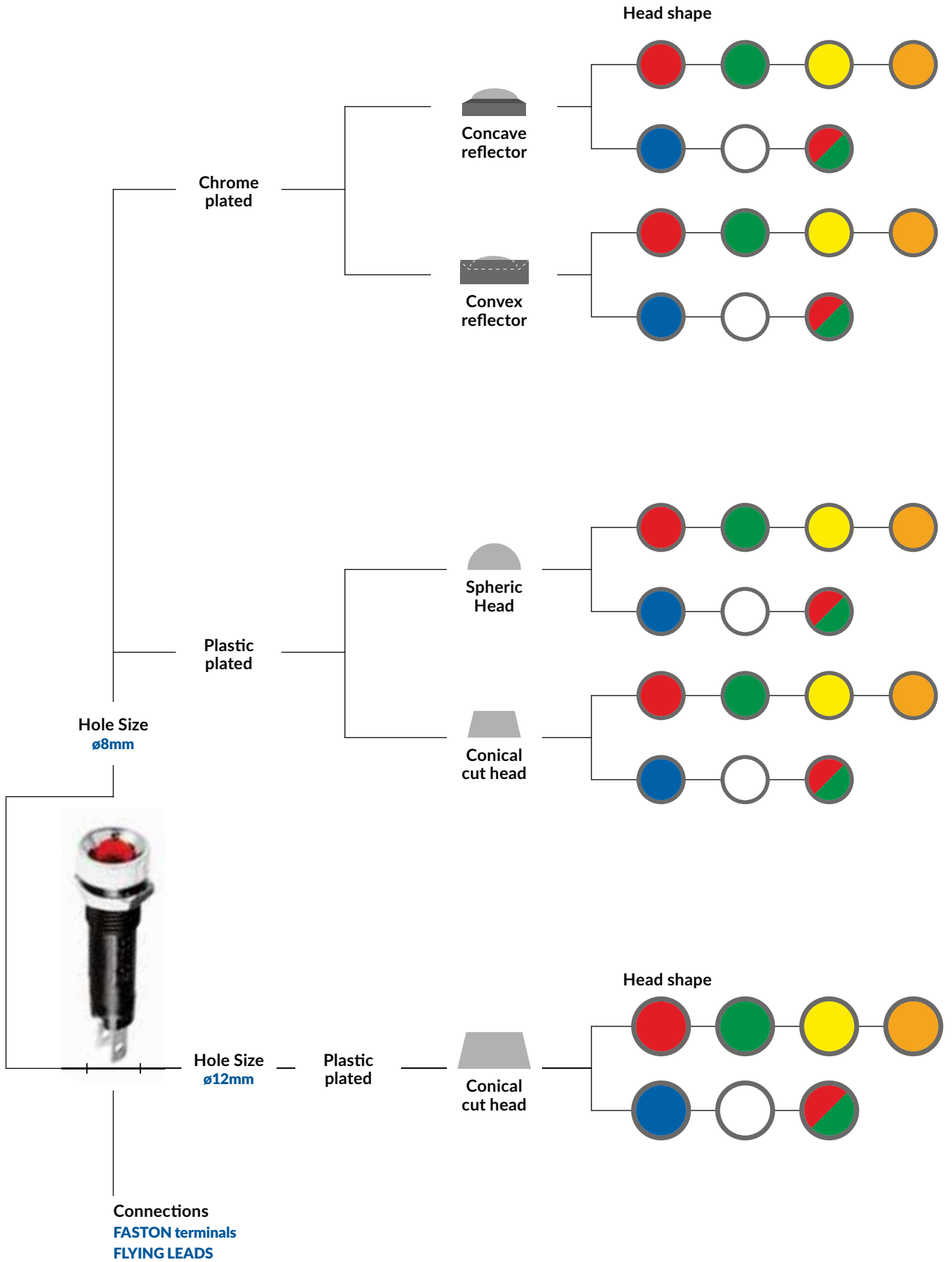
IEC CEI 20-22



Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm or Flying Leads.



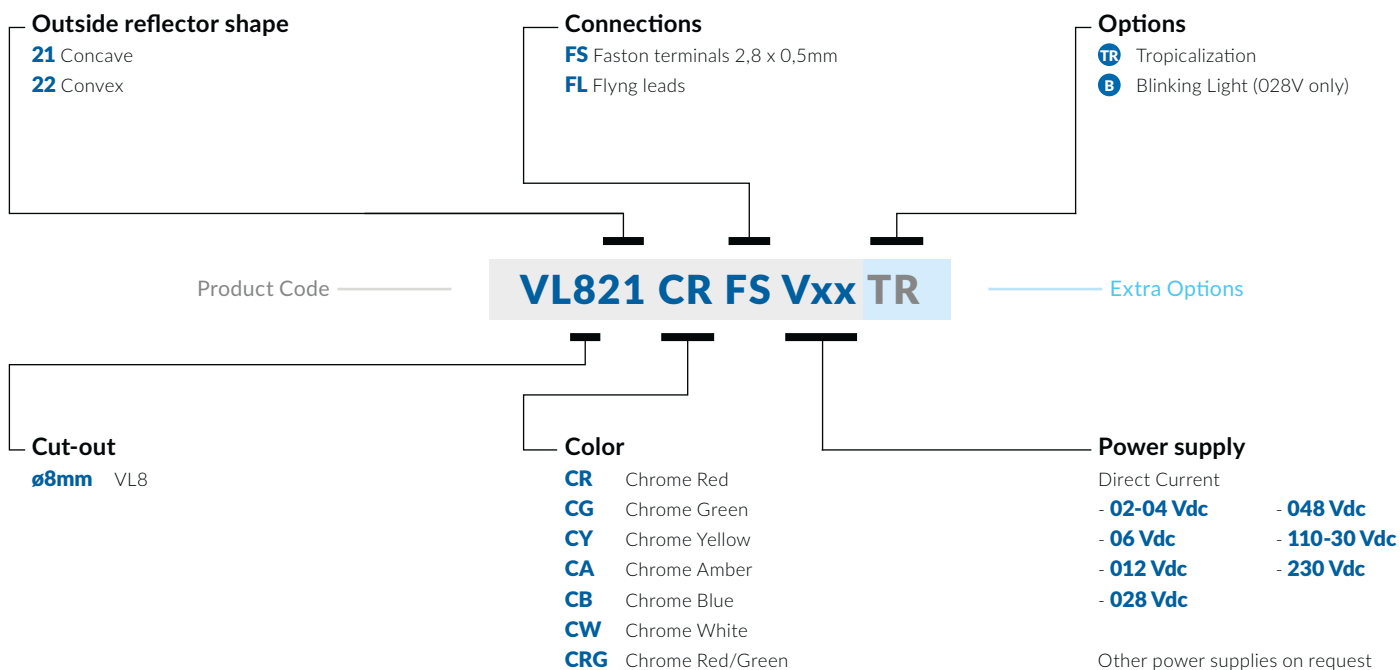
Product diagram Ø8mm - Ø12mm



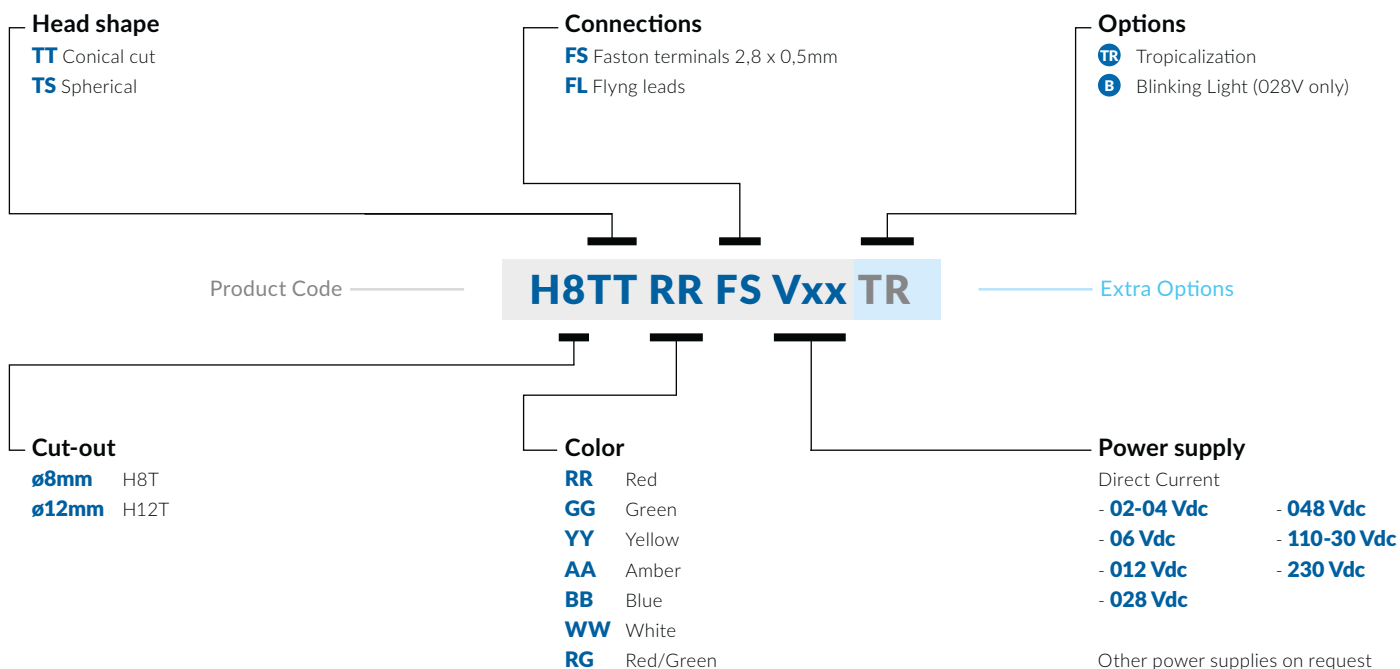
Product code structure Ø8mm - Ø12mm

Small LED Indicators

VL821 - VL822 code structure



H8 - H12 code structure





VL821 - Faston terminals

VL822 - Faston terminals

Outside reflector VL821

Head Ø10mm
Cut-out Ø8



Outside reflector VL822

Head Ø10mm
Cut-out Ø8



- Red
- Green
- Yellow
- Amber
- Blue
- White
- Red/Green

- VL821 CR FS Vxx
- VL821 CG FS Vxx
- VL821 CY FS Vxx
- VL821 CA FS Vxx
- VL821 CB FS Vxx
- VL821 CW FS Vxx
- VL821 CRG FS Vxx

TR B (028V only)

- VL822 CR FS Vxx
- VL822 CG FS Vxx
- VL822 CY FS Vxx
- VL822 CA FS Vxx
- VL822 CB FS Vxx
- VL822 CW FS Vxx
- VL822 CRG FS Vxx

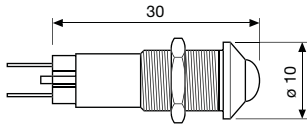
TR B (028V only)

VL821 connections - Faston terminals

VL822 connections - Faston terminals

VL821

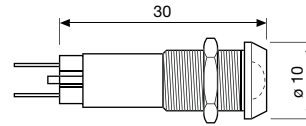
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

VL822

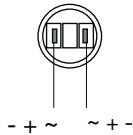
Dimensions mm 1:2



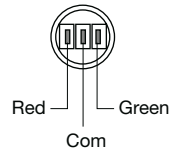
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,5mm

Monocolor

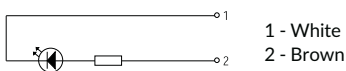


Bicolor

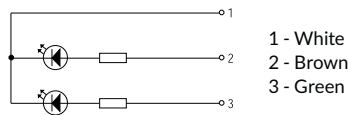


Flying Leads

Monocolor



Bicolor





H8TT - Faston terminals

H8TS - Faston terminals

H12TT - Faston terminals

H8TT
Head Ø10mm
Cut-out Ø8



H8TS
Head Ø10mm
Cut-out Ø8



H12TT
Head Ø14mm
Cut-out Ø12



- Red
- Green
- Yellow
- Amber
- Blue
- White
- Red/Green

- H8TT RR FS Vxx
- H8TT GG FS Vxx
- H8TT YY FS Vxx
- H8TT AA FS Vxx
- H8TT BB FS Vxx
- H8TT WW FS Vxx
- H8TT RG FS Vxx

TR B (028V only)

- H8TS RR FS Vxx
- H8TS GG FS Vxx
- H8TS YY FS Vxx
- H8TS AA FS Vxx
- H8TS BB FS Vxx
- H8TS WW FS Vxx
- H8TS RG FS Vxx

TR B (028V only)

- H12TT RR FS Vxx
- H12TT GG FS Vxx
- H12TT YY FS Vxx
- H12TT AA FS Vxx
- H12TT BB FS Vxx
- H12TT WW FS Vxx
- H12TT RG FS Vxx

TR B (028V only)

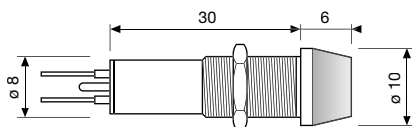
H8TT connections - Faston terminals

H8TS connections - Faston terminals

H12TT connections - Faston terminals

H8TT

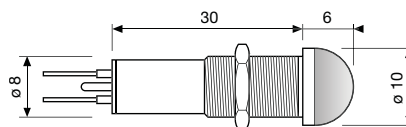
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

H8TS

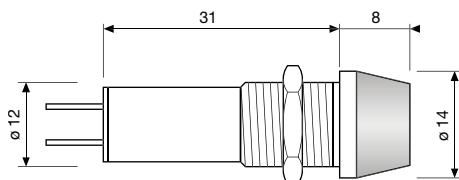
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

H12TT

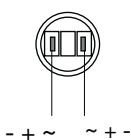
Dimensions mm 1:2



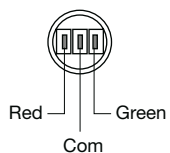
board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,5mm

Monocolor

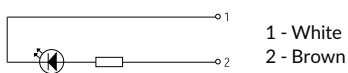


Bicolor



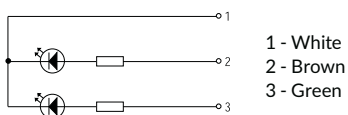
Flying Leads

Monocolor



1 - White
2 - Brown

Bicolor



1 - White
2 - Brown
3 - Green



Control and Annunciator Panels

Compact systems
of signalling
and control

Control and Annunciator Panels

Technical features

Body material: **Polycarbonate V0/UL 94** - Colour: **Black**

Protection degree: **IP40**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

LED consumption: **15mA**

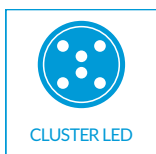
Customs tariff: **85389091**



Available with integrated Lamp Test circuit (LT), to test all signals at once.



Tropicalization treatment available on request.



24x48mm and 24x72mm Visual indicators are featured with powerful Cluster LED.

Supply voltage +/- 10%

AC/DC - 15-20mA

024 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

Alternating Current - 15mA

240 Vac

Direct Current - 9mA

220 Vdc

Other power supplies on request

Multicore cable Flying Leads

0,25 mm²

0,50 mm²

1,00 mm²

IEC CEI 20-22



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically.



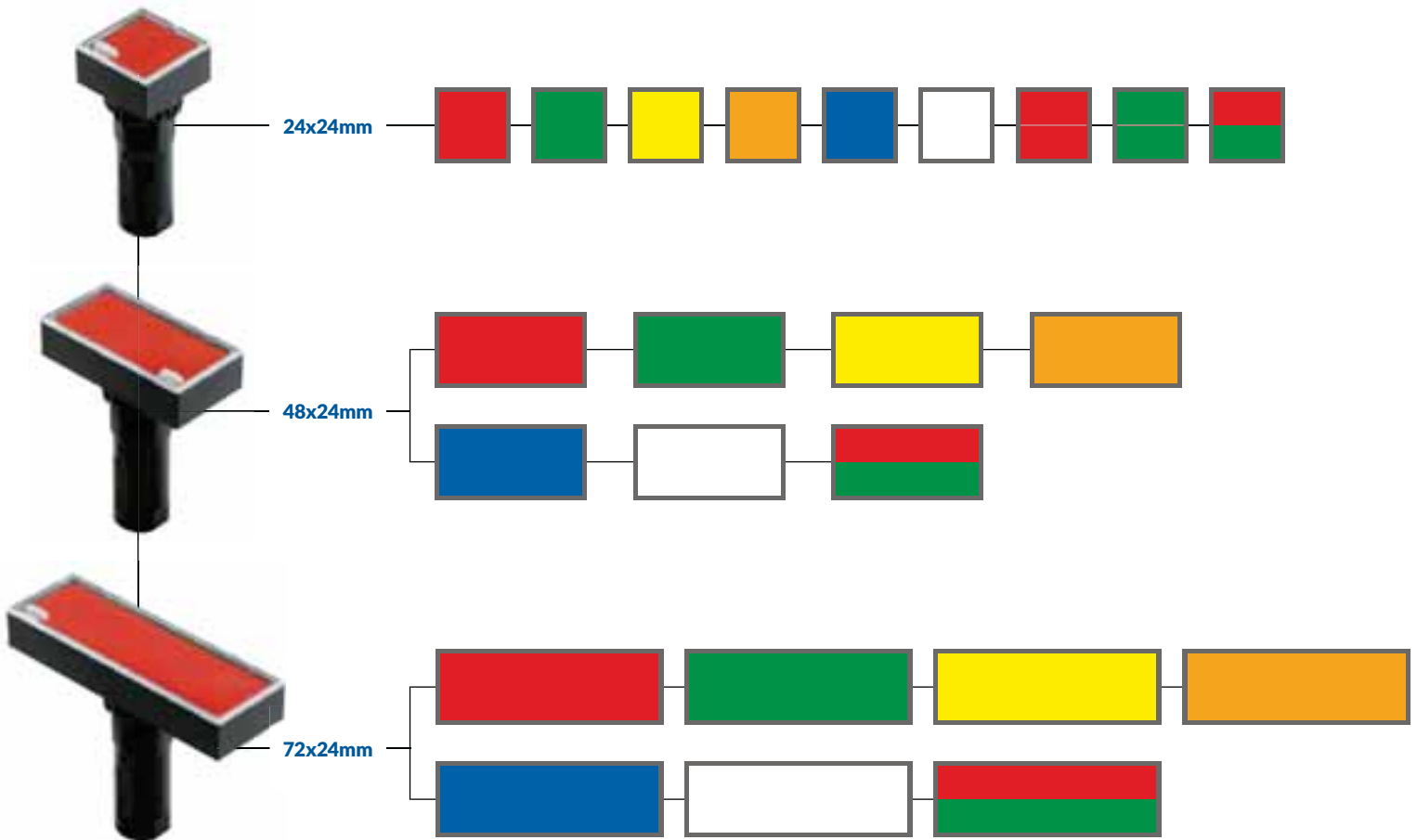
Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm.

The modular construction of the Annunciator allows units to be assembled in almost any size and shape to suit the customer's requirements, thanks three window sizes, six colours LED illumination.

A flexible alarm annunciator that offers a perfect solution with any alarm system requirement.

Since annunciators are used to monitor critical plants, it is essential that the unit provides the highest reliability possible.

AmpiLED display
Indicators



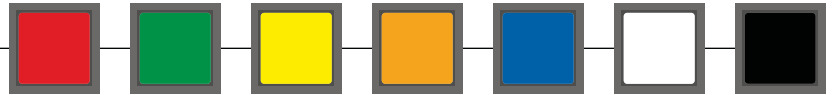
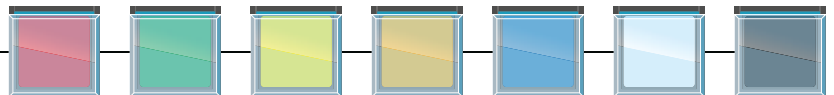
Product diagram Ø16mm

Compact systems of signalling and control

Pushbutton
Switches

24x24mm

Standard

With
protective
coverSelector
switch

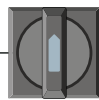
24x24mm

2
positions

Maintained



Spring return

3
positions

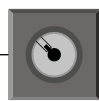
Maintained



Spring return

Key
switch

24x24mm

2
positions

Maintained



Spring return

3
positions

Maintained



Spring return

Buzzer
sound

24x24mm

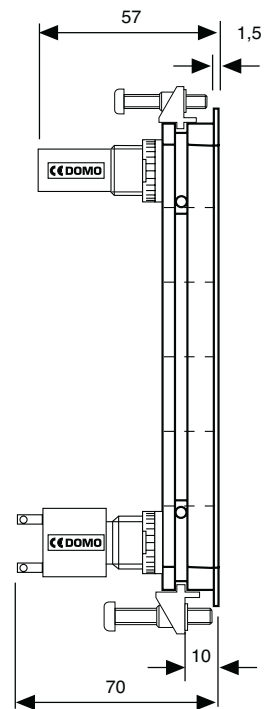
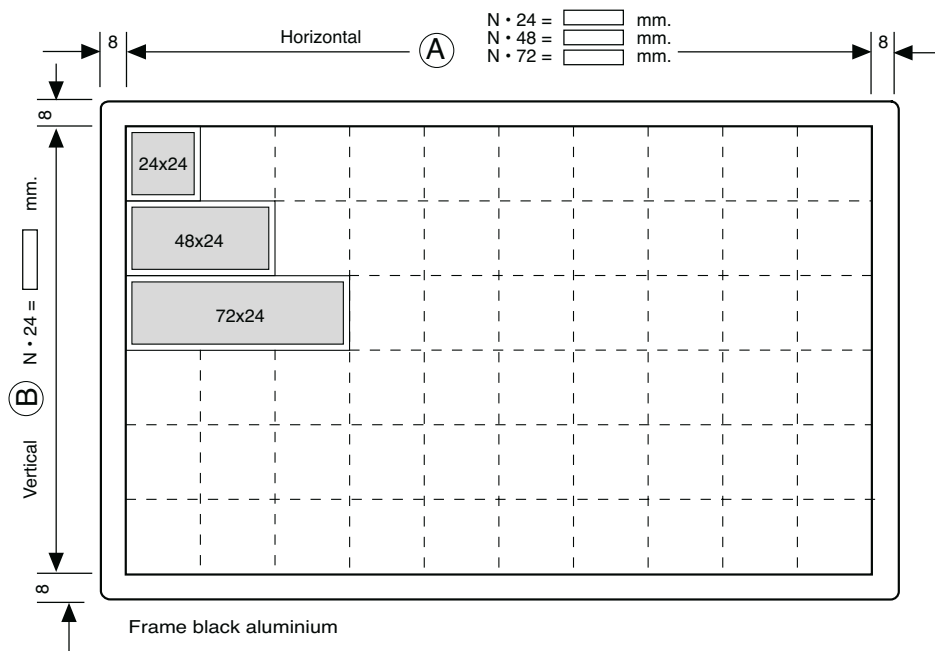


For orders refer to the following diagram:

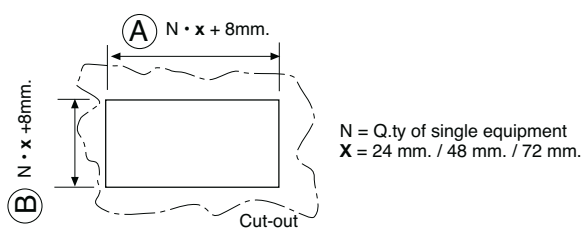
CTR24



Control panel front size

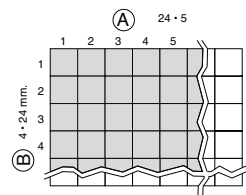


Control panel cut-out

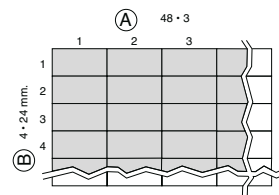


How to order the control panel CTR 24 with:

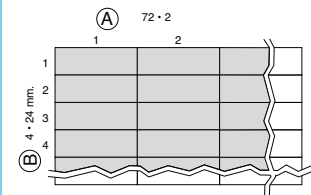
Signalling HL16.24
(24x24)



Signalling HL16.48
(48x24)



Signalling HL16.72
(72x24)



Example for orders:

CRT24 A24/5 x B24/4

CRT24 A48/3 x B24/4

CRT24 A72/2 x B24/4

Three windows size



Ampiled display
Indicator 24 x 24



Ampiled display
Indicator 48 x 24



Ampiled display
Indicator 72 x 24

Attention! For more details about the Ampiled display Indicators family, please see the related section on page 140.

Other elements compatible
with the control unit



Pushbutton



Knob selector switch
two positions
three position



Key selector switch
two positions
three position



Buzzer sound

Attention! For more details about the Pushbutton Switches family, please see the related section on page 176.



Control and Annunciator Panels

Logica SQ-1



Logica SQ-1

Technical features

Power supply	24 Vcd (10 to 38) - 200 mA Positive Common (except external lamps) 48 Vcd (39 to 50) - 200 mA Positive Common (except external lamps)
Outputs	NPN type, 100 mA (horns 250 mA)

Inputs	Input contacts must close to Negative (internal pull-up to +24 Voc. R=2.400 Ohm)
Dimensions	160x90 mm (9 modules) h=68 mm. Fastening do DIN EN 50022 guides according to DIN 43880 standards.



A flexible alarm annunciator that offers a perfect solution with any alarm system requirement.

Since Annunciators are used to monitor critical plants, it is essential that the unit provides the highest reliability possible.

ISA sequences:

ISA-1	ISA-2B
ISA-1A	ISA-2C
ISA-1B	ISA-2D
ISA-1C	ISA-2C with first out
ISA-2A	ISA-4A

n.18 Signalling lamp

n.18 Alarm inputs

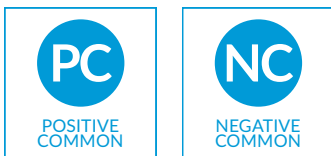
n.4 Pushbutton: Lamp Test, ACK, Sequence test, reset

n.2 External horns

The SQ-1 Logica works latching in alarms and driving repeat relays, with the drive to the lamps horn and pushbutton inputs enabled.

The SQ-1 Logica can be panel mounted on DIN rail bars.

A system can be created to link two or more SQ-1 Logica together as repeat or grouped displays.



Positive Common by default.
Negative Common on request.

SQ-1



Power supply

24V
48V

SQ-1 024
SQ-1 048



Instructions

Normal work

“Work” LED always lit up means normal work.

The LEDs from 1 to 17 display the status of the outputs.

By keeping “<” pressed, the LEDs show the status of the inputs (monitor).

By keeping “>” pressed the LEDs show the type of the inputs
(short flash = NO, long flash = NC).

By keeping “Set” pressed down, the LEDs show the type of sequence programmed.

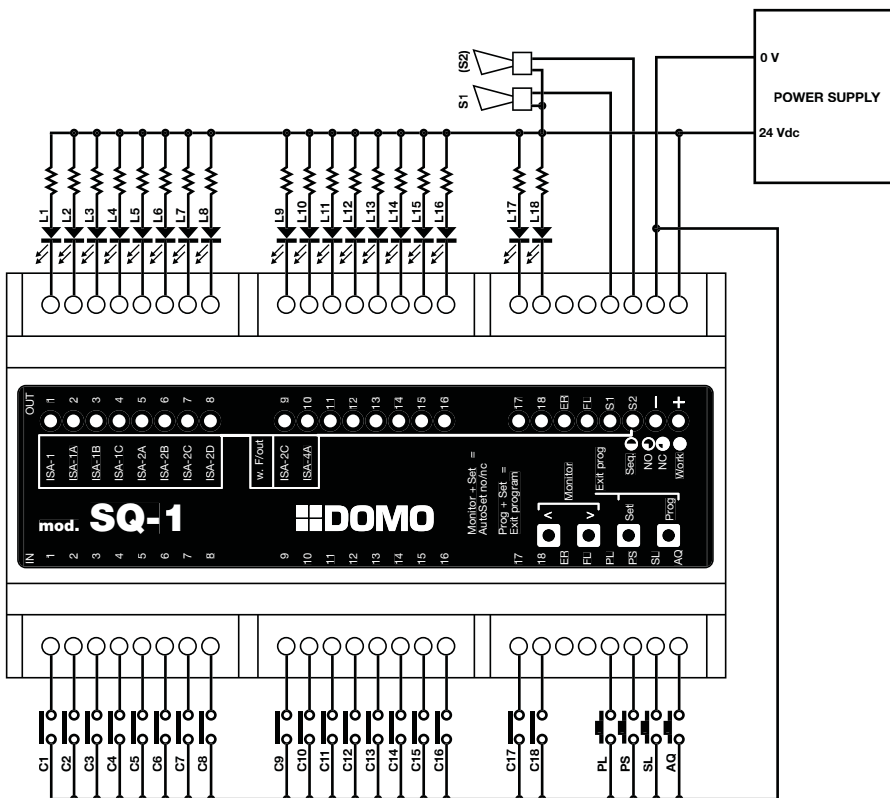
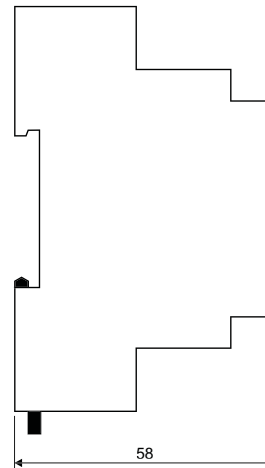
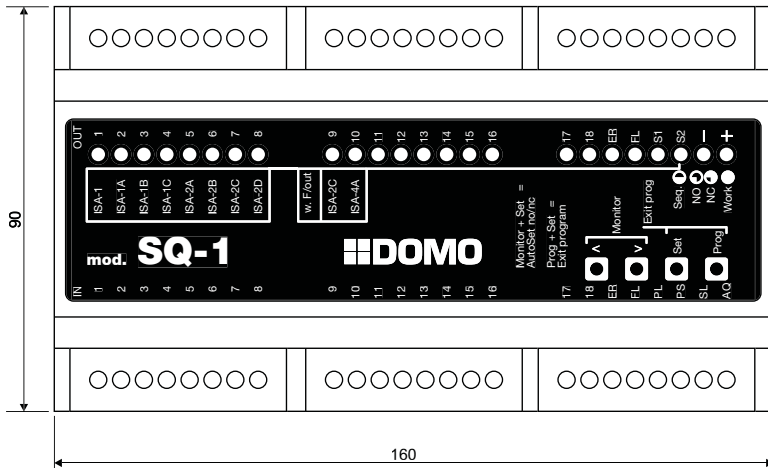
Programming

- 1 Keep the “Prog” key pressed 3 seconds long. The Seq LED will start flashing. LEDs from 1 to 10 will display the type of sequence selected. Use “<” or “>” to change the selected sequence.
- 2 Press the “Prog” key again. The NO/NC LED will flash quickly. LEDs from 1 to 10 will flash showing the selected input and its type: a short flash means NO (normally open) contact, a long flash means NC (normally closed) contact.
To select different inputs press “<” or “>”. To change the type of the input to the selected one press “Set”.
In order to display all the input types, keep pressed either “<” or “>”.
By keeping pressed either “<” or “>” together with the “Set” key, all the inputs will be programmed automatically according to the signal currently applied to each input (the signal applied in that moment will be considered normal).
Pressing “Prog” again brings back to step 1.
- 3 In order to end programming and save the configuration, keep “Prog” pressed by pressing “Set”.

Logica SQ-1 connections

SQ-1

Dimensions mm 1:2



Legend

- L1 ... L18** Signalling lamps 24 Vcc
- C1 ... C18** Alarm inputs
- PL** Lamp Test
- PS** Sequence Test
- SL** Reset
- AQ** Acknowledgment

- ISA RP181 ISA S18.1
- ISA-1 ISA-A
- ISA-1A ISA-A5
- ISA-1B ISA-A4
- ISA-1C ISA-A4-5
- ISA-2A ISA-R8
- ISA-2B ISA-R11
- ISA-2C ISA-M
- ISA-2D ISA-M5
- ISA-4A ISA-F1A



LED Lamps

Lamps with LED technology

Lamps with LED technology

Technical features

Head material: **Polycarbonate V0/UL 94**

Base material: **Brass nickel plated**

Protection degree: **IP40**

Not replaceable LEDs

Working temperature: **-20°C +60°C**

Operating life at AT 25°C: **> 100.000 h**

LED consumption: **15mA**

Weight: **0,2g (BA9S - E10) - 0,1g (BA7S - MG - T5,5 - T5,5K)**

9g (BA15 - E14) - 5g (BA15 ECO - E14 ECO)

Customs tariff: **85389091**



Integrated Rectifier Bridge to work in Alternating Current (AC) or Direct Current (DC), automatically (BA9s - E10 - MG - BA7s - BA15 - E14 only).



Tropicalization treatment available on request (BA9s - E10 - BA15 - E14 only).



BA15s, BA15d and E14 LED lamps are available in two versions:
- Standard equipment, with 12 LEDs, used for Stack Lights (instead of filament bulbs).
- Economy equipment, with 4 LEDs, especially used for Cemetery application.

Supply voltage +/- 10%

AC/DC - 15-20mA

002-004 Vac/dc

006 Vac/dc

012 Vac/dc

028 Vac/dc

048 Vac/dc

130 = 110-130 Vac/dc

AC/DC - - 10mA

230 Vac/dc



Optional Blinking Light (BA9s - E10 only).

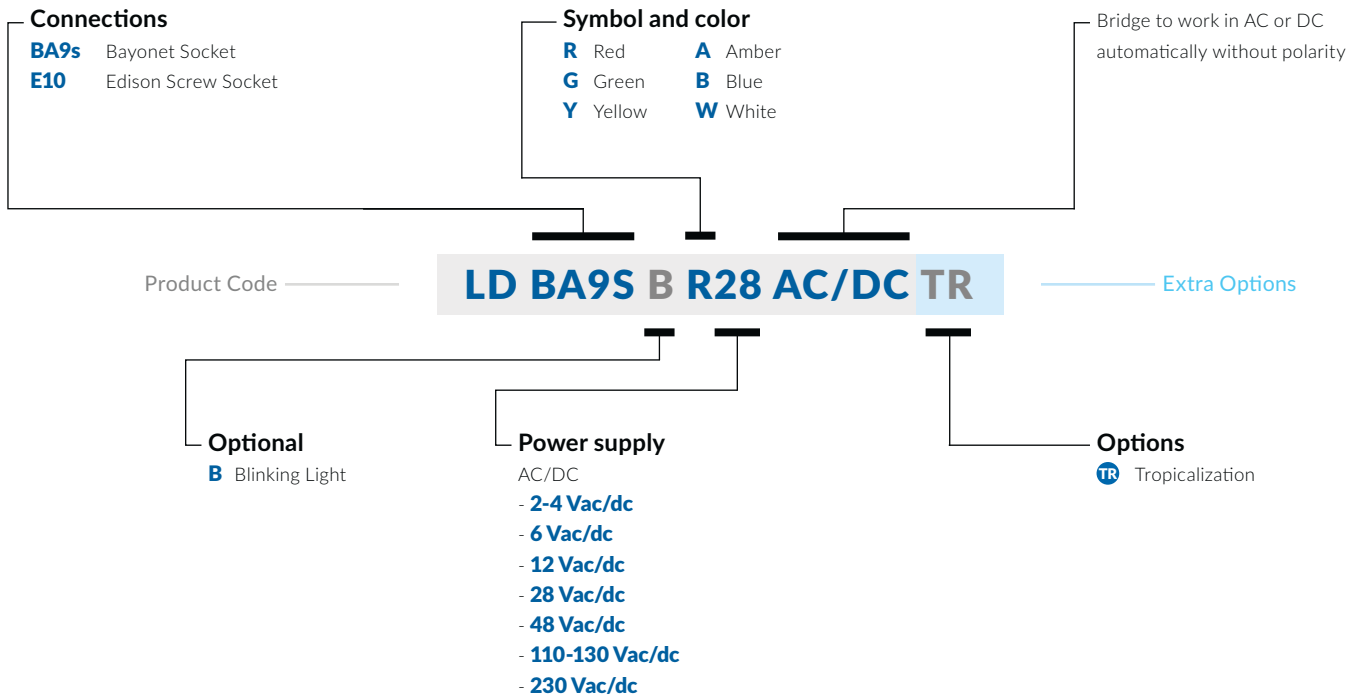




Product code structure

LD BA9S - LD E10

LED lamps - High luminous intensity - Single chips - large angle - with bridge rectifier - no polarity



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

LD BA9S - Bayonet Socket

Lamps with LED technology

LD E10 - Edison Screw Socket

LED lamps - High luminous intensity - Single chips - large angle - with bridge rectifier - no polarity

LD BA9S**LD E10****Standard type**

● Red	LD BA9S RVxx AC/DC	LD E10 RVxx AC/DC
● Green	LD BA9S GVxx AC/DC	LD E10 GVxx AC/DC
● Yellow	LD BA9S YVxx AC/DC	LD E10 YVxx AC/DC
● Amber	LD BA9S AVxx AC/DC	LD E10 AVxx AC/DC
● Blue	LD BA9S BVxx AC/DC	LD E10 BVxx AC/DC
○ White	LD BA9S WVxx AC/DC	LD E10 WVxx AC/DC

TR

TR

Blinking Light (no 230V)

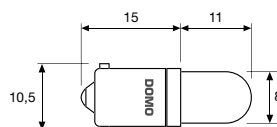
● Red	LD BA9S B RVxx AC/DC	LD E10 B RVxx AC/DC
● Green	LD BA9S B GVxx AC/DC	LD E10 B GVxx AC/DC
● Yellow	LD BA9S B YVxx AC/DC	LD E10 B YVxx AC/DC
● Amber	LD BA9S B AVxx AC/DC	LD E10 B AVxx AC/DC
● Blue	LD BA9S B BVxx AC/DC	LD E10 B BVxx AC/DC

TR

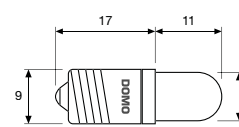
TR

LD BA9S

Dimensions mm 1:2

**LD E10**

Dimensions mm 1:2

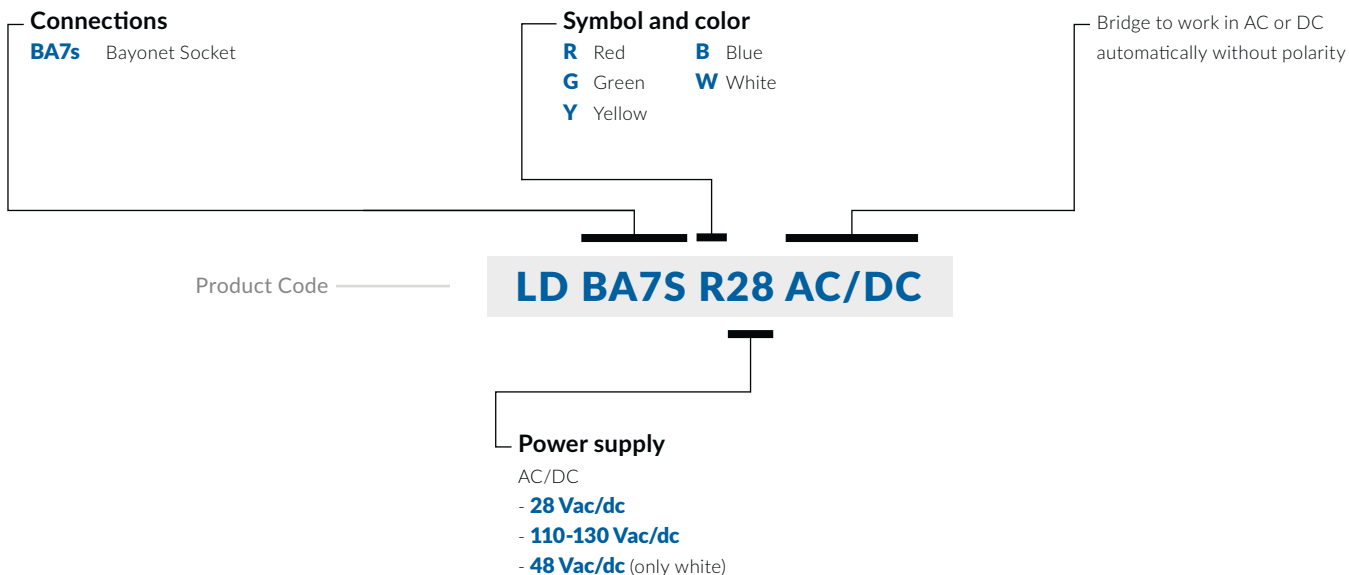




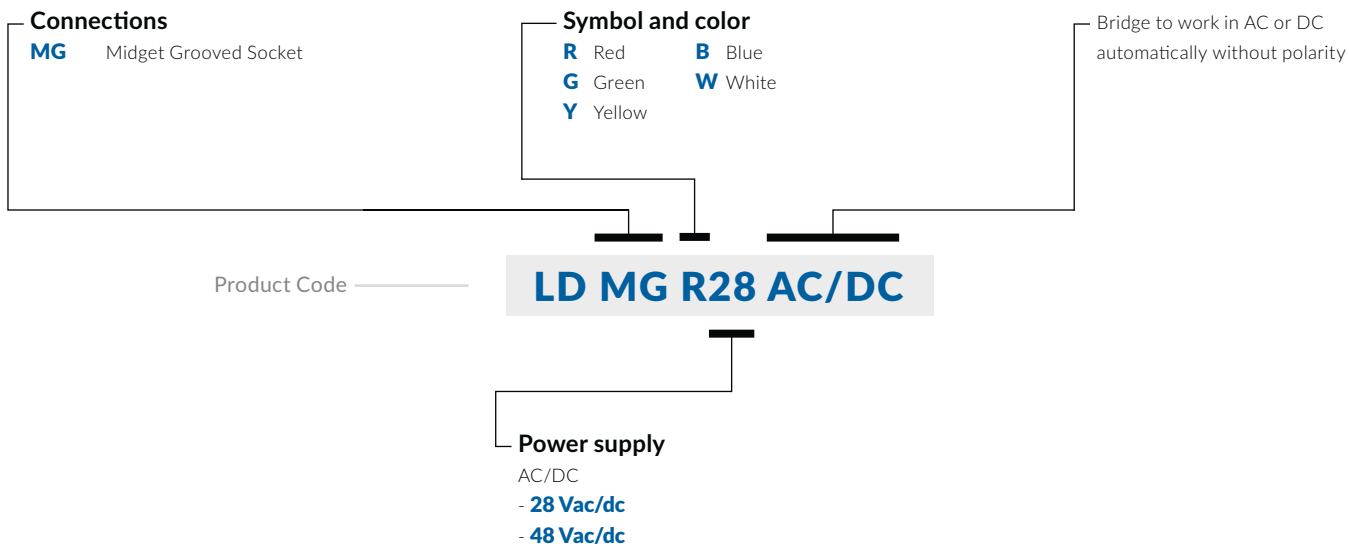
LD BA7S - LD MG

LED lamps - High luminous intensity - Single chips - large angle - with bridge rectifier - no polarity

BA7S Lamp code structure



MG Midget Grooved Lamp code structure



LD BA7S - Bayonet Socket

Lamps with LED technology

LD MG - Midget Grooved Socket

LED lamps - High luminous intensity - Single chips - large angle - with bridge rectifier - no polarity

LD BA7S



LD MG Midget Grooved



- Red
- Green
- Yellow
- Blue
- White

- LD BA7S RVxx AC/DC
- LD BA7S GVxx AC/DC
- LD BA7S YVxx AC/DC
- LD BA7S BVxx AC/DC
- LD BA7S WVxx AC/DC

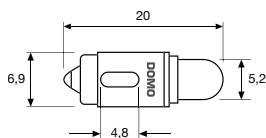
48V White only

- LD MG RVxx AC/DC
- LD MG GVxx AC/DC
- LD MG YVxx AC/DC
- LD MG BVxx AC/DC
- LD MG WVxx AC/DC

48V Red, Green, Yellow only

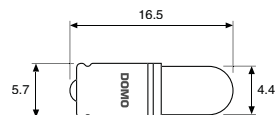
LD BA7S

Dimensions mm 1:2



LD MG

Dimensions mm 1:2



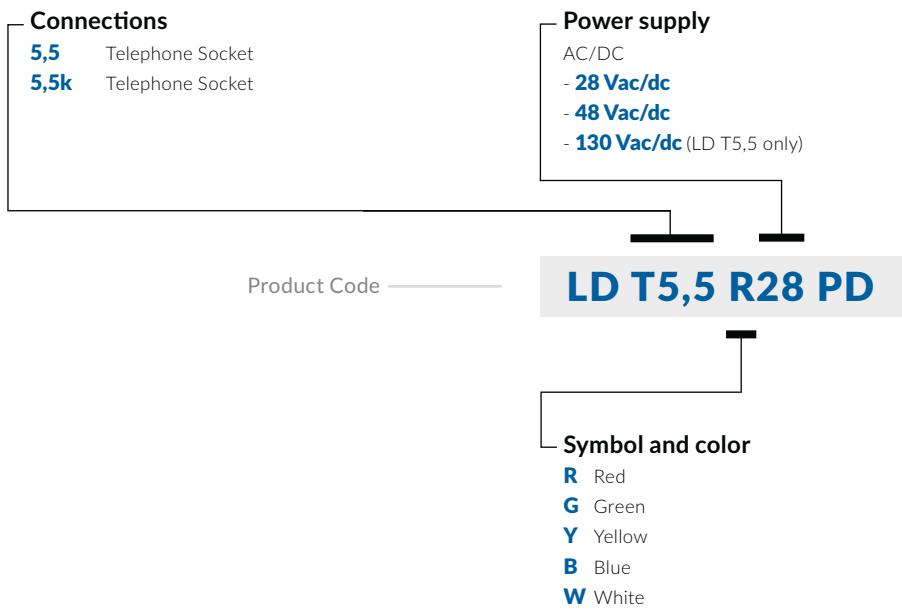


Product code structure

LD T5,5 - LD T5,5K

Lamps with LED technology

LED lamps - High luminous intensity - Single chips - large angle



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

LD T5,5 - Telephone Socket

LD T5,5K - Telephone Socket

Lamps with LED technology

LED lamps - High luminous intensity - Single chips - large angle

LD T5,5



LD T5,5K



- Red
- Green
- Yellow
- Blue
- White

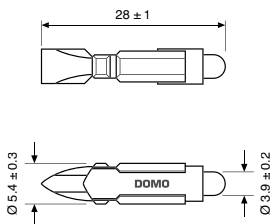
- LD T5,5 RVxx PD
- LD T5,5 GVxx PD
- LD T5,5 YVxx PD
- LD T5,5 BVxx PD
- LD T5,5 WVxx PD

- LD T5,5K RVxx PD
- LD T5,5K GVxx PD
- LD T5,5K YVxx PD
- LD T5,5K BVxx PD
- LD T5,5K WVxx PD

no 130V

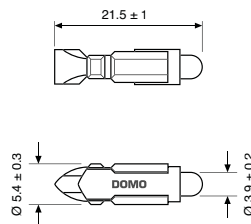
LD T5,5

Dimensions mm 1:2



LD T5,5K

Dimensions mm 1:2





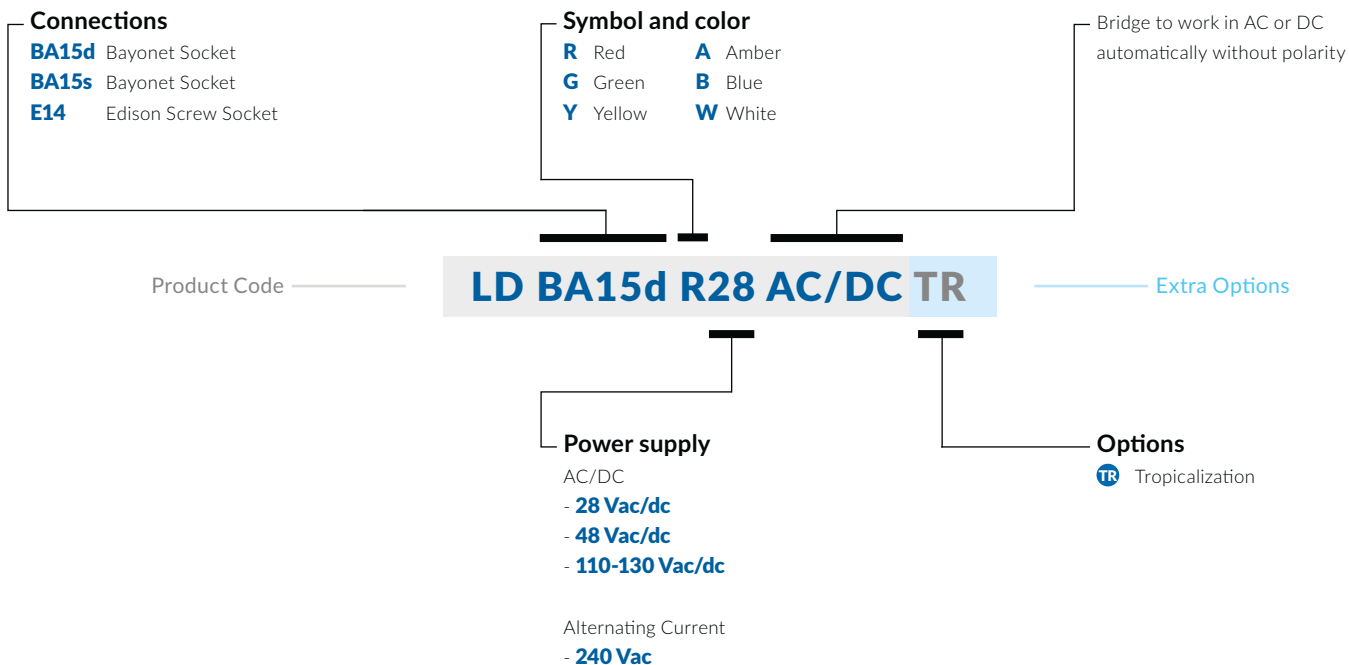
Product code structure

Lamps with LED technology

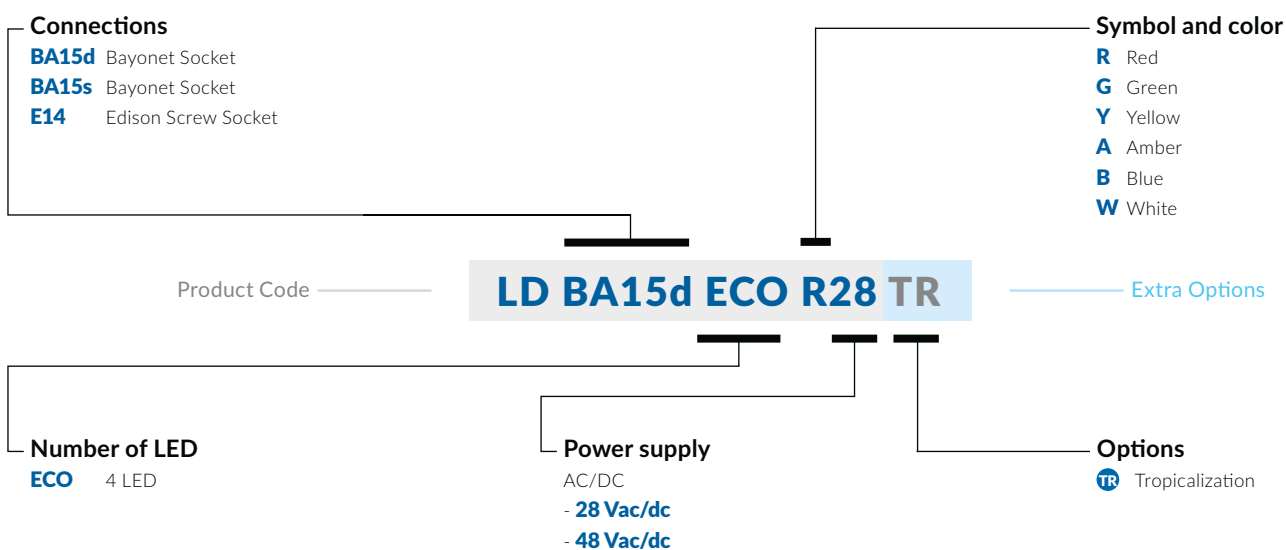
LD BA15d - LD BA15s LD E14

LED lamps - High luminous intensity - large angle - with bridge rectifier - no polarity

BA15d, BA15s and E14 Lamp code structure



BA15d ECO, BA15s ECO and E14 ECO Lamp code structure



LD BA15d - Bayonet Socket

LD BA15s - Bayonet Socket

LD E14 - Edison Screw Socket

Lamps with LED technology

LED lamps - High luminous intensity - large angle - with bridge rectifier - no polarity

Used inside Stack Light compact and assembled

LD BA15d - LD BA15s



LD E14



● Red	LD BA15d RVxx AC/DC	LD BA15s RVxx AC/DC	LD E14 RVxx AC/DC
● Green	LD BA15d GVxx AC/DC	LD BA15s GVxx AC/DC	LD E14 GVxx AC/DC
● Yellow	LD BA15d YVxx AC/DC	LD BA15s YVxx AC/DC	LD E14 YVxx AC/DC
● Amber	LD BA15d AVxx AC/DC	LD BA15s AVxx AC/DC	LD E14 AVxx AC/DC
● Blue	LD BA15d BVxx AC/DC	LD BA15s BVxx AC/DC	LD E14 BVxx AC/DC
○ White	LD BA15d WVxx AC/DC	LD BA15s WVxx AC/DC	LD E14 WVxx AC/DC



Cemetery application

LD BA15d ECO - LD BA15s ECO



LD E14 ECO



● Red	LD BA15d ECO RVxx	LD BA15s ECO RVxx	LD E14 ECO RVxx
● Green	LD BA15d ECO GVxx	LD BA15s ECO GVxx	LD E14 ECO GVxx
● Yellow	LD BA15d ECO YVxx	LD BA15s ECO YVxx	LD E14 ECO YVxx
● Amber	LD BA15d ECO AVxx	LD BA15s ECO AVxx	LD E14 ECO AVxx
● Blue	LD BA15d ECO BVxx	LD BA15s ECO BVxx	LD E14 ECO BVxx
○ White	LD BA15d ECO WVxx	LD BA15s ECO WVxx	LD E14 ECO WVxx

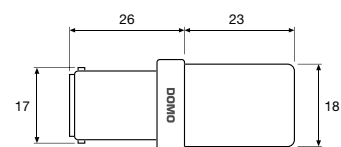


LD BA15d - LD BA15s

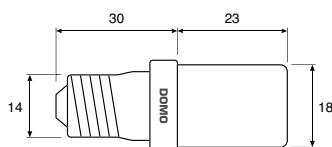
LD E14

LD BA15d - LD BA15s ECO LD E14 ECO

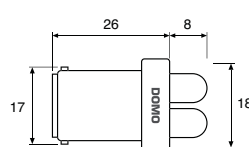
Dimensions mm 1:2



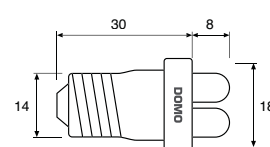
Dimensions mm 1:2



Dimensions mm 1:2



Dimensions mm 1:2





Pushbutton Switches

Pushbuttons and
Pilot Lights Ø16mm

Selector Switches
Ø16mm

Emergency
Pushbuttons Ø16mm

Contact elements and
Contact block ø16mm

Pushbutton Switches

Technical features

According to standard:

IEC 60947-5-1

Nema EN418

UL 508

Test report 11-0912-01

Air Temperature:

during operation -25°C +70°C

storage -40°C +70°C

Protection degree: **IEC 60529**

Mechanical durability (in millions of operating cycles):

Momentary 3,0

Manteined 0,5

Selector 1,0

Contact elements 3,0

Body material: **Polycarbonate V0/UL 94**

Colour: **Black**

Rate insulation voltage for contact block according to IEC 60947-5-1:

Ui 300 Vac/dc with Faston terminas 2,8 x 0,8 mm - degree of pollution 3

Contact block operating materials:

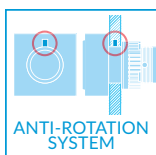
Silver alloy Ag/Ni - Self Cleaning creeping action - slow break



Customs tariff: **85389091**



Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm.



Anti-rotation System.

Rated impulse with standard voltage: **U_{imp} 5kv**

Faston Connection				CD16	/th 5A
AC-15	V	24	48	110	240
	A	5	4	3	1,5
DC-14	V	24	48	110	220
	A	2,5	1,4	0,2	0,15

Electrical data for illuminated elements with LED

50-60Hz

	Power	Current
12 Vac/dc	± 10%	16 mA
24 Vac/dc	± 10%	16 mA
48 Vac/dc	± 10%	14 mA
110 Vac/dc	± 10%	10 mA
130 Vac/dc	± 10%	8 mA
220 Vdc	± 10%	5 mAV
240 Vac	± 10%	4,5 mA

Color	Operating life
Red, Green, Yellow, Amber	100.000h
Blue, White	50.000h

Weight:

6g - Pushbutton (size 18x18)

8g - Pushbutton (size 24x24)

8g - Pushbutton (size Ø24)

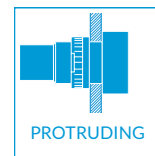
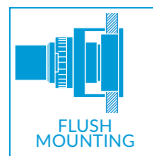
11g - Knob Selector Switch

25g - Key Selector Switch

16g - Emergency Pushbutton

9g - Standard contact element

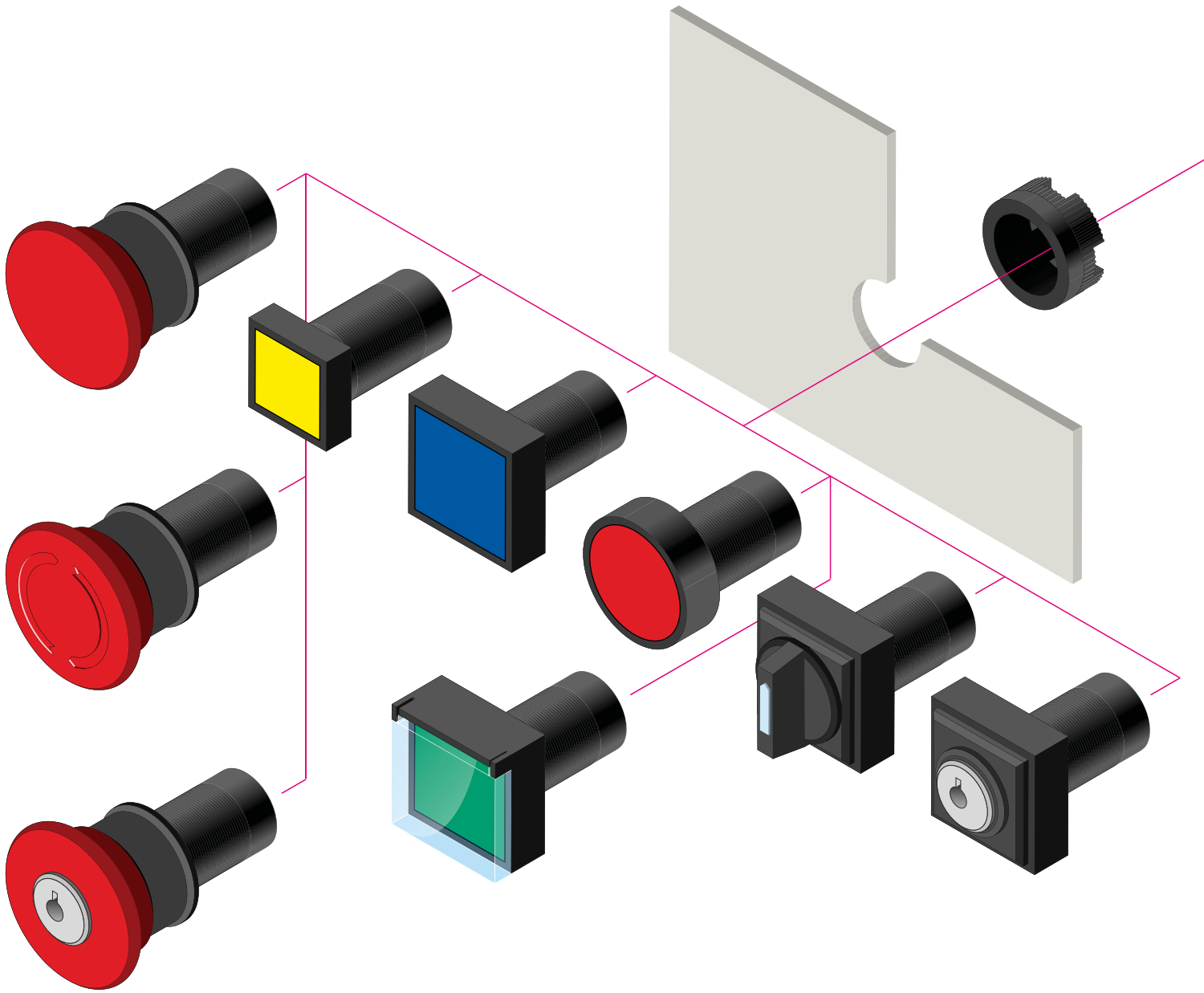
11g - Double contact element 1NO 1NC



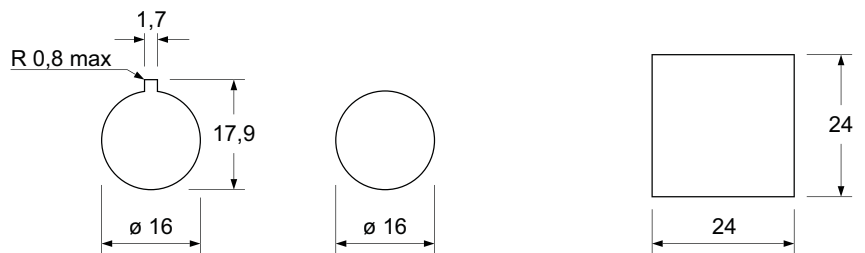
B type solution with low-profile Flush Mounting, to limit the external dimensions and improve the design of the panel.



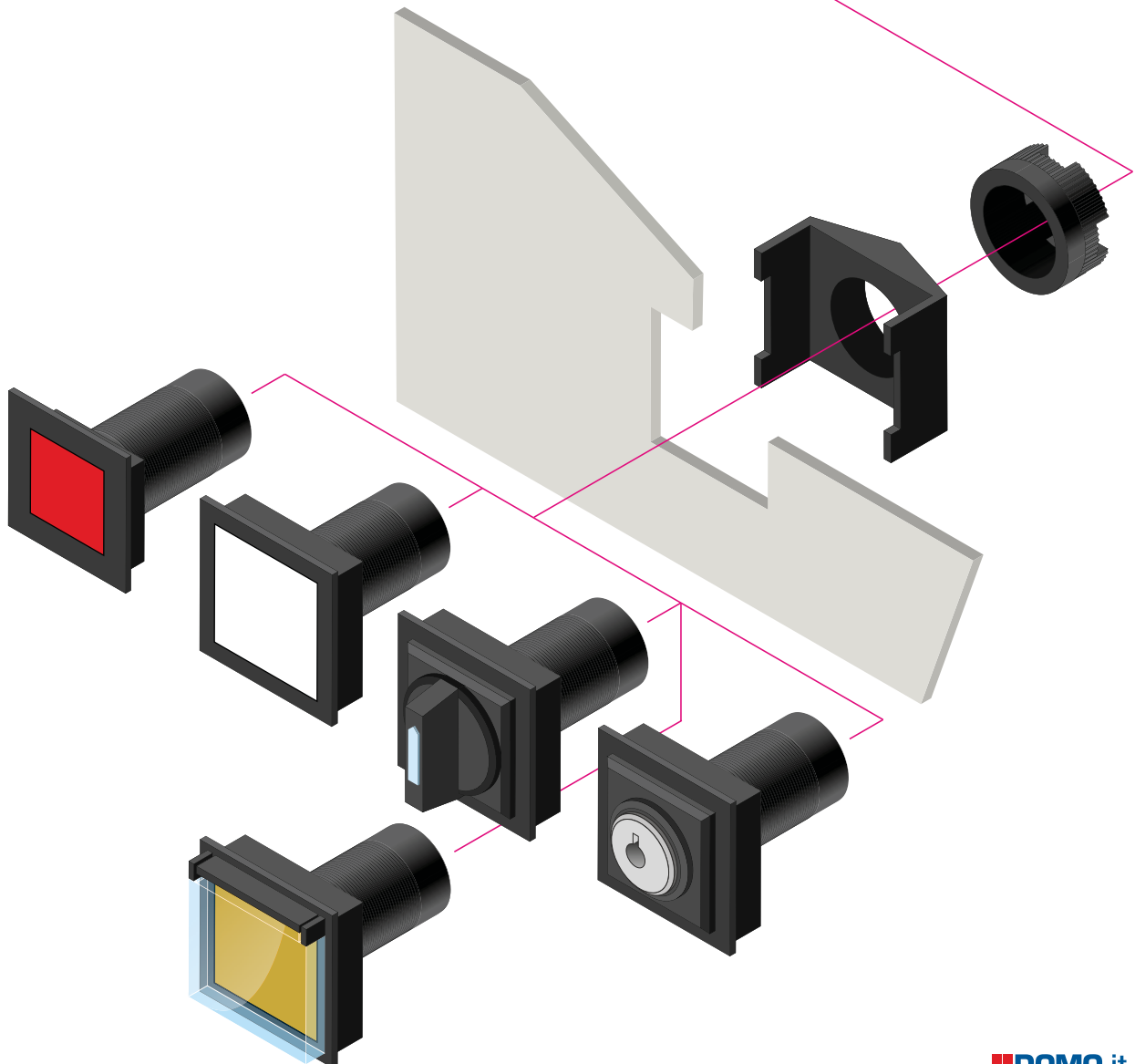
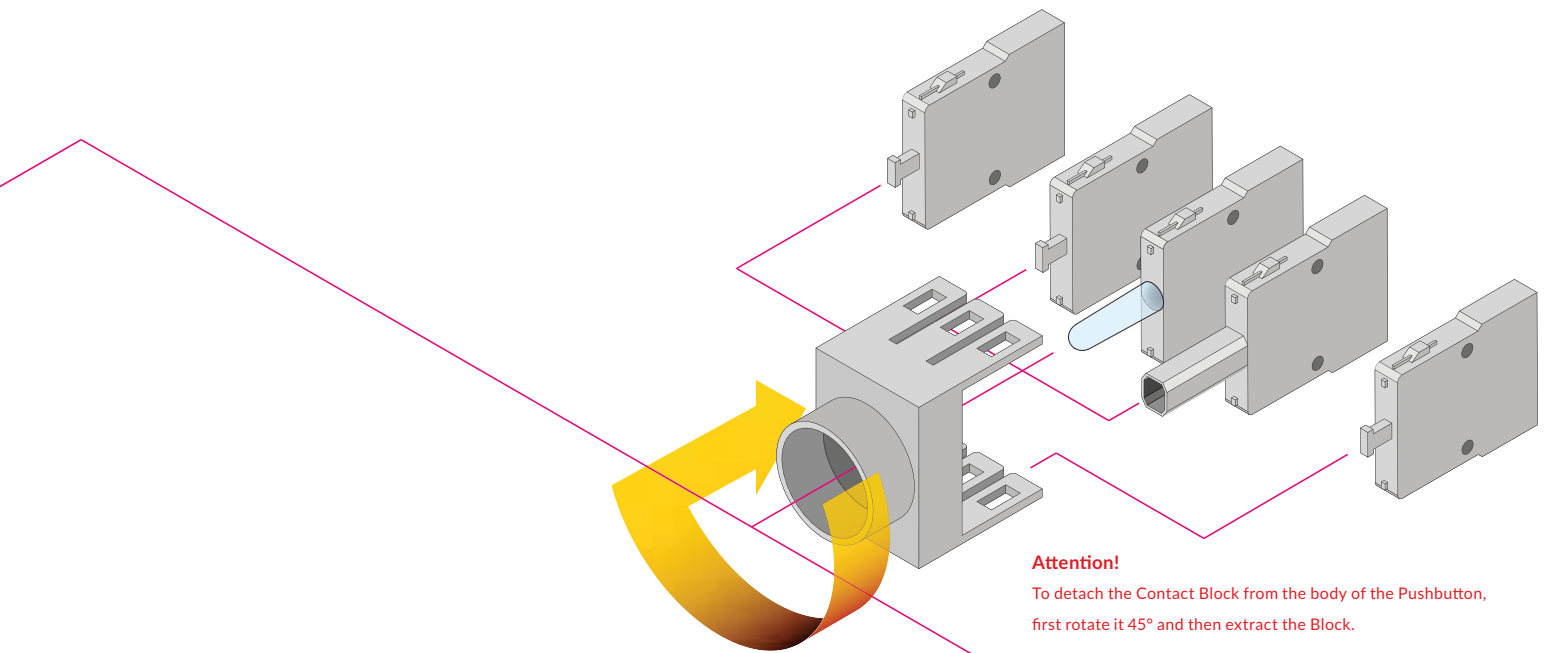
Overall view sample



Cut-out dimensions



Overall view sample

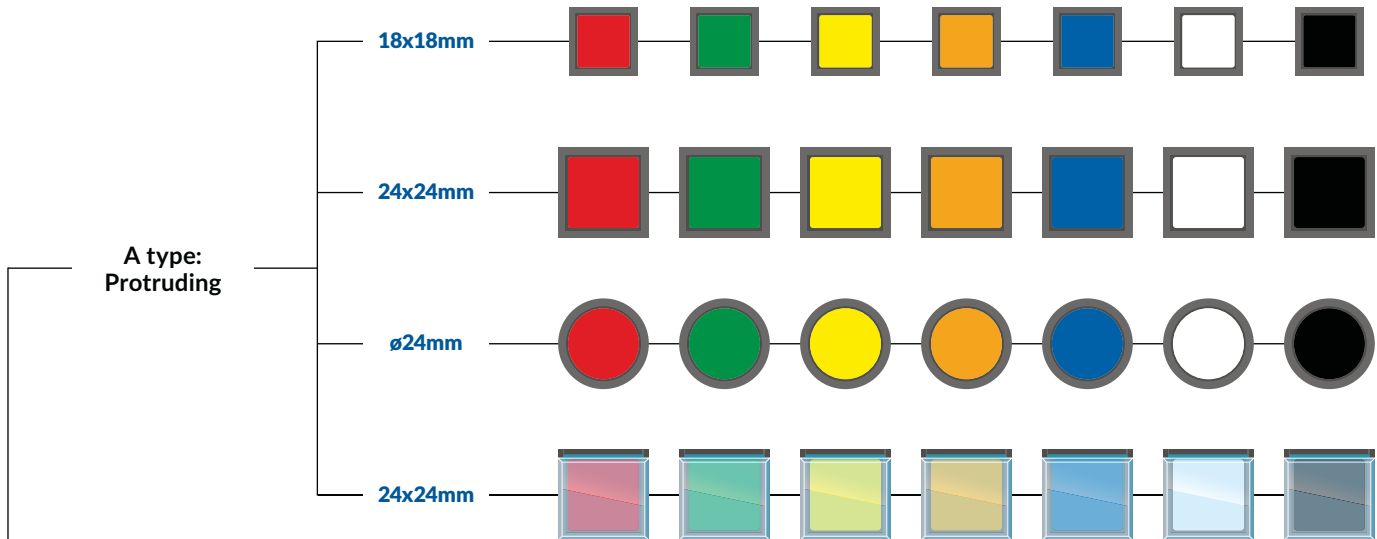




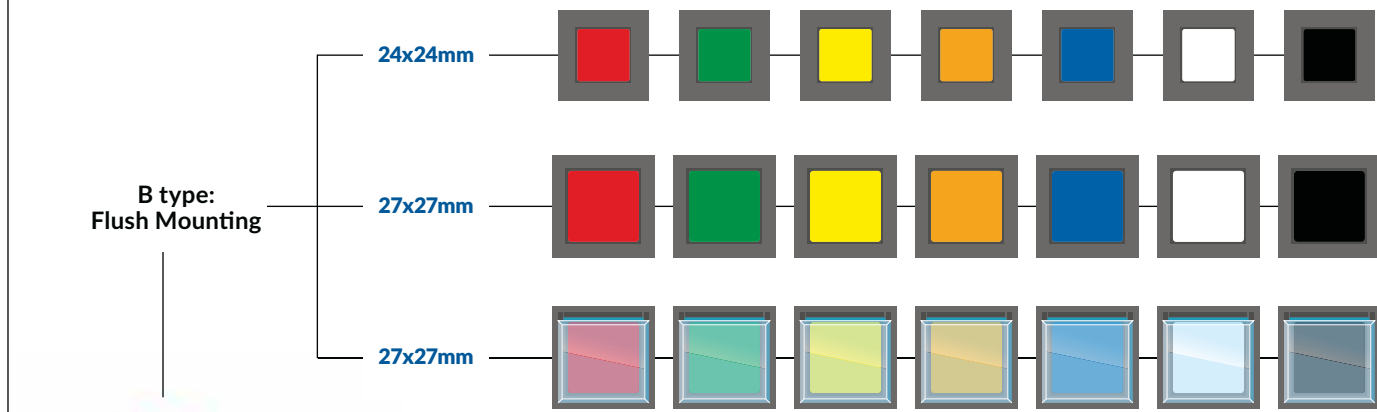
Product diagram Pushbuttons and Pilot Lights Ø16mm

Pushbuttons and Pilot Lights Ø16mm

Head shape



Head shape



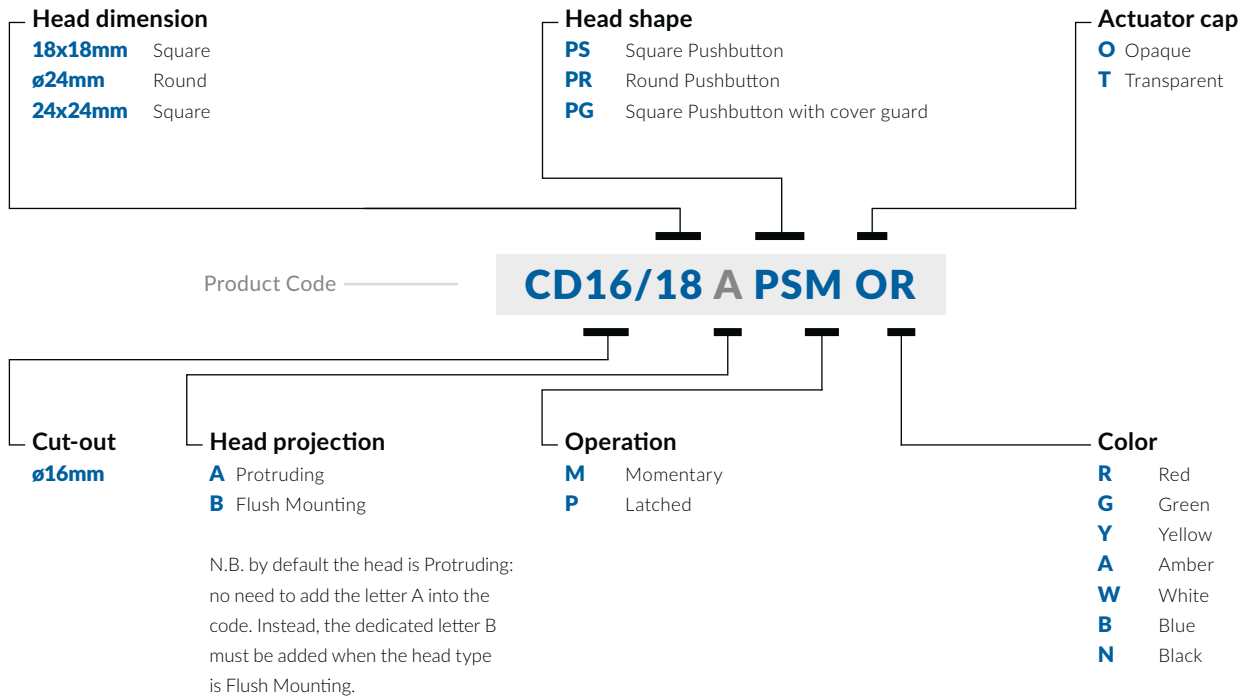
Hole Size
ø16mm

Connections
FASTON terminals

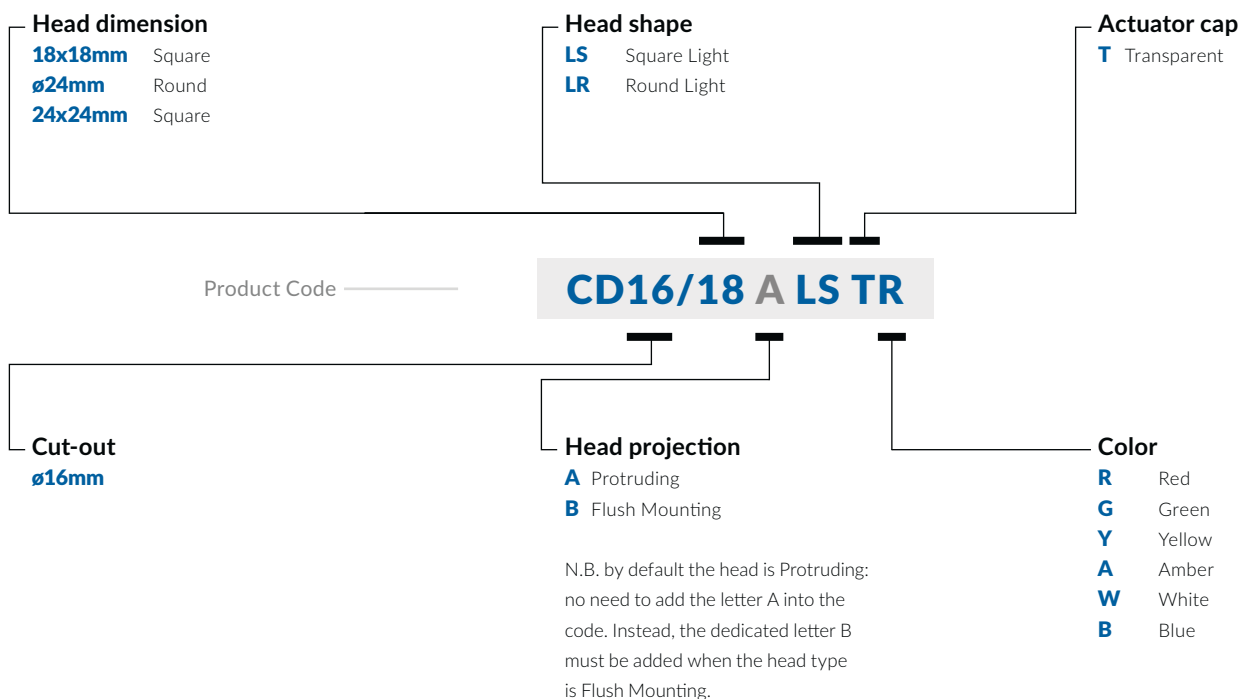
Product code structure

Pushbuttons and Pilot Lights Ø16mm

Pushbutton



Pilot light





A type
Protruding
Head 18x18mm
Cut-out Ø16mm



B type
Flush Mounting
Head 24x24mm
Cut-out 18x18mm



Momentary non illuminated



● Red	CD16/18 PSM OR	CD16/18B PSM OR
● Green	CD16/18 PSM OG	CD16/18B PSM OG
● Yellow	CD16/18 PSM OY	CD16/18B PSM OY
● Blue	CD16/18 PSM OB	CD16/18B PSM OB
○ White	CD16/18 PSM OW	CD16/18B PSM OW
● Black	CD16/18 PSM ON	CD16/18B PSM ON

Momentary illuminated



● Red	CD16/18 PSM TR	CD16/18B PSM TR
● Green	CD16/18 PSM TG	CD16/18B PSM TG
● Yellow	CD16/18 PSM TY	CD16/18B PSM TY
● Blue	CD16/18 PSM TB	CD16/18B PSM TB
○ White	CD16/18 PSM TW	CD16/18B PSM TW

Latching non illuminated



● Red	CD16/18 PSP OR	CD16/18B PSP OR
● Green	CD16/18 PSP OG	CD16/18B PSP OG
● Yellow	CD16/18 PSP OY	CD16/18B PSP OY
● Blue	CD16/18 PSP OB	CD16/18B PSP OB
○ White	CD16/18 PSP OW	CD16/18B PSP OW
● Black	CD16/18 PSP ON	CD16/18B PSP ON

Latching illuminated



● Red	CD16/18 PSP TR	CD16/18B PSP TR
● Green	CD16/18 PSP TG	CD16/18B PSP TG
● Yellow	CD16/18 PSP TY	CD16/18B PSP TY
● Blue	CD16/18 PSP TB	CD16/18B PSP TB
○ White	CD16/18 PSP TW	CD16/18B PSP TW

Pilot light



● Red	CD16/18 LS TR	CD16/18B LS TR
● Green	CD16/18 LS TG	CD16/18B LS TG
● Yellow	CD16/18 LS TY	CD16/18B LS TY
● Amber	CD16/18 LS TA	CD16/18B LS TA
● Blue	CD16/18 LS TB	CD16/18B LS TB
○ White	CD16/18 LS TW	CD16/18B LS TW

CD16/24 PSM - Faston terminals

Pushbuttons and pilot lights Ø16mm

A type
 Protruding
 Head 24x24mm
 Cut-out Ø16mm



B type
 Flush Mounting
 Head 27x27mm
 Cut-out 24x24mm



Momentary non illuminated



● Red	CD16/24 PSM OR	CD16/24B PSM OR
● Green	CD16/24 PSM OG	CD16/24B PSM OG
● Yellow	CD16/24 PSM OY	CD16/24B PSM OY
● Blue	CD16/24 PSM OB	CD16/24B PSM OB
○ White	CD16/24 PSM OW	CD16/24B PSM OW
● Black	CD16/24 PSM ON	CD16/24B PSM ON

Momentary illuminated



● Red	CD16/24 PSM TR	CD16/24B PSM TR
● Green	CD16/24 PSM TG	CD16/24B PSM TG
● Yellow	CD16/24 PSM TY	CD16/24B PSM TY
● Blue	CD16/24 PSM TB	CD16/24B PSM TB
○ White	CD16/24 PSM TW	CD16/24B PSM TW

Latching non illuminated



● Red	CD16/24 PSP OR	CD16/24B PSP OR
● Green	CD16/24 PSP OG	CD16/24B PSP OG
● Yellow	CD16/24 PSP OY	CD16/24B PSP OY
● Blue	CD16/24 PSP OB	CD16/24B PSP OB
○ White	CD16/24 PSP OW	CD16/24B PSP OW
● Black	CD16/24 PSP ON	CD16/24B PSP ON

Latching illuminated



● Red	CD16/24 PSP TR	CD16/24B PSP TR
● Green	CD16/24 PSP TG	CD16/24B PSP TG
● Yellow	CD16/24 PSP TY	CD16/24B PSP TY
● Blue	CD16/24 PSP TB	CD16/24B PSP TB
○ White	CD16/24 PSP TW	CD16/24B PSP TW

Pilot light



● Red	CD16/24 LS TR	CD16/24B LS TR
● Green	CD16/24 LS TG	CD16/24B LS TG
● Yellow	CD16/24 LS TY	CD16/24B LS TY
● Amber	CD16/24 LS TA	CD16/24B LS TA
● Blue	CD16/24 LS TB	CD16/24B LS TB
○ White	CD16/24 LS TW	CD16/24B LS TW



A type
Protruding
Head Ø24mm
Cut-out Ø16mm



Momentary non illuminated



● Red	CD16/24 PRM OR
● Green	CD16/24 PRM OG
● Yellow	CD16/24 PRM OY
● Blue	CD16/24 PRM OB
○ White	CD16/24 PRM OW
● Black	CD16/24 PRM ON

Momentary illuminated



● Red	CD16/24 PRM TR
● Green	CD16/24 PRM TG
● Yellow	CD16/24 PRM TY
● Blue	CD16/24 PRM TB
○ White	CD16/24 PRM TW

Latching non illuminated



● Red	CD16/24 PRP OR
● Green	CD16/24 PRP OG
● Yellow	CD16/24 PRP OY
● Blue	CD16/24 PRP OB
○ White	CD16/24 PRP OW
● Black	CD16/24 PRP ON

Latching illuminated



● Red	CD16/24 PRP TR
● Green	CD16/24 PRP TG
● Yellow	CD16/24 PRP TY
● Blue	CD16/24 PRP TB
○ White	CD16/24 PRP TW

Pilot light



● Red	CD16/24 LR TR
● Green	CD16/24 LR TG
● Yellow	CD16/24 LR TY
● Amber	CD16/24 LR TA
● Blue	CD16/24 LR TB
○ White	CD16/24 LR TW

CD16/24 PGM - Faston terminals

Pushbuttons and pilot lights Ø16mm with transparent cover guard 24x24mm

A type
 Protruding
 Head 24x24mm
 Cut-out Ø16mm



B type
 Flush Mounting
 Head 27x27mm
 Cut-out 24x24mm



Momentary non illuminated



● Red	CD16/24 PGM OR	CD16/24B PGM OR
● Green	CD16/24 PGM OG	CD16/24B PGM OG
● Yellow	CD16/24 PGM OY	CD16/24B PGM OY
● Blue	CD16/24 PGM OB	CD16/24B PGM OB
○ White	CD16/24 PGM OW	CD16/24B PGM OW
● Black	CD16/24 PGM ON	CD16/24B PGM ON

Momentary illuminated



● Red	CD16/24 PGM TR	CD16/24B PGM TR
● Green	CD16/24 PGM TG	CD16/24B PGM TG
● Yellow	CD16/24 PGM TY	CD16/24B PGM TY
● Blue	CD16/24 PGM TB	CD16/24B PGM TB
○ White	CD16/24 PGM TW	CD16/24B PGM TW

Latching non illuminated



● Red	CD16/24 PGP OR	CD16/24B PGP OR
● Green	CD16/24 PGP OG	CD16/24B PGP OG
● Yellow	CD16/24 PGP OY	CD16/24B PGP OY
● Blue	CD16/24 PGP OB	CD16/24B PGP OB
○ White	CD16/24 PGP OW	CD16/24B PGP OW
● Black	CD16/24 PGP ON	CD16/24B PGP ON

Latching illuminated

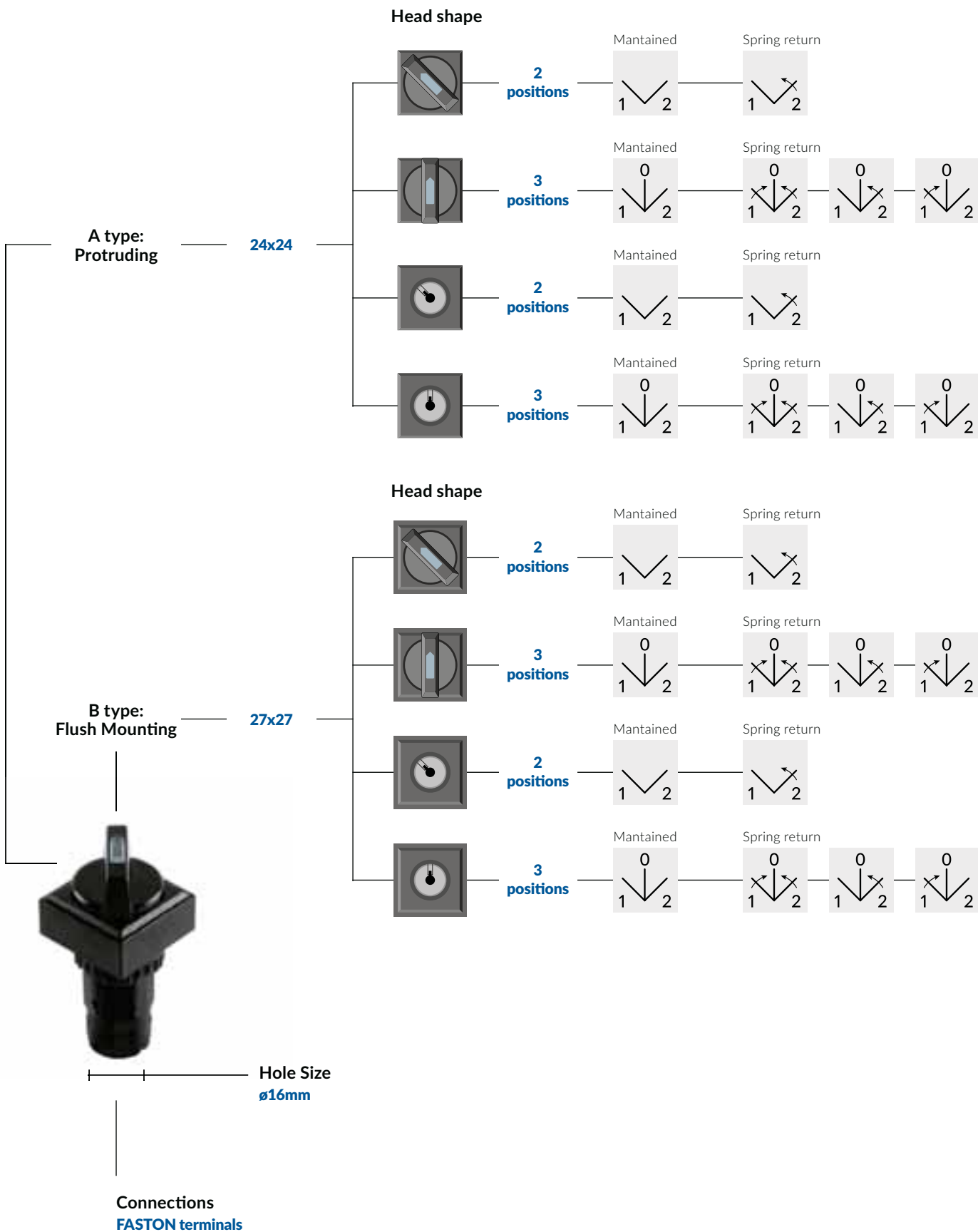


● Red	CD16/24 PGP TR	CD16/24B PGP TR
● Green	CD16/24 PGP TG	CD16/24B PGP TG
● Yellow	CD16/24 PGP TY	CD16/24B PGP TY
● Blue	CD16/24 PGP TB	CD16/24B PGP TB
○ White	CD16/24 PGP TW	CD16/24B PGP TW



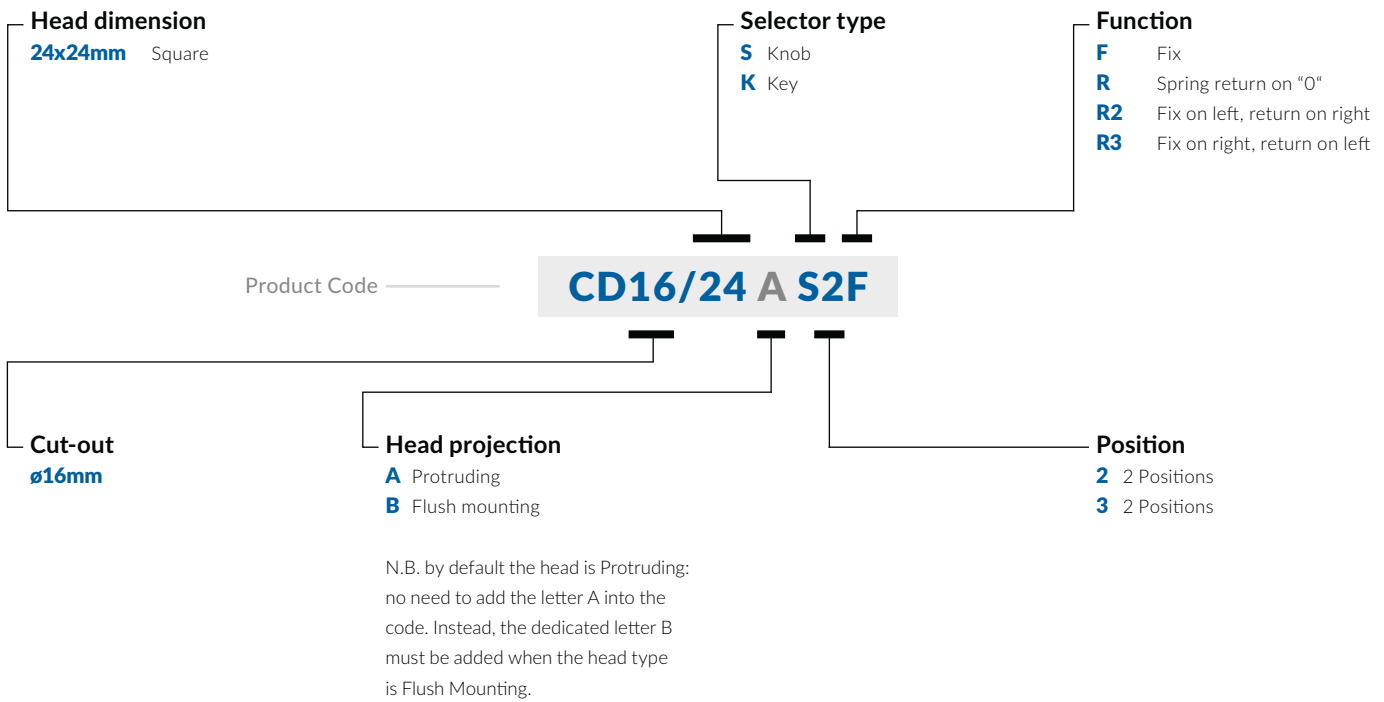
Product diagram

Knob and Key selector switch Ø16mm



Product code structure

Knob and Key selector switch Ø16mm



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



Knob selector switch

A type
Protruding
Head 24x24mm
Cut-out Ø16mm



B type
Flush Mounting
Head 27x27mm
Cut-out 24x24mm



Actuator for selector switch 2 positions



Maintained

CD16/24 S2F

CD16/24B S2F



Spring Return

CD16/24 S2R

CD16/24B S2R

Actuator for selector switch 3 positions



Maintained

CD16/24 S3F

CD16/24B S3F



Spring Return

CD16/24 S3R

CD16/24B S3R



Spring Return

CD16/24 S3R2

CD16/24B S3R2



Spring Return

CD16/24 S3R3

CD16/24B S3R3

CD16/24 K2F - Faston terminals

Selector Switches Ø16mm

Key selector switch



Key Removal

Actuator for key switch 2 positions



1 - 2		CD16/24 K2F1		CD16/24B K2F1
1 - -		CD16/24 K2F2		CD16/24B K2F2
- - 2		CD16/24 K2F3		CD16/24B K2F3



1 - -		CD16/24 K2R1		CD16/24B K2R1
-------	--	--------------	--	---------------

Actuator for key switch 3 positions



1 0 2		CD16/24 K3F1		CD16/24B K3F1
1 - -		CD16/24 K3F2		CD16/24B K3F2
- 0 -		CD16/24 K3F3		CD16/24B K3F3
- - 2		CD16/24 K3F4		CD16/24B K3F4



- 0 -		CD16/24 K3R1		CD16/24B K3R1
-------	--	--------------	--	---------------



- 0 -		CD16/24 K3R2		CD16/24B K3R2
1 - -		CD16/24 K3R21		CD16/24B K3R21

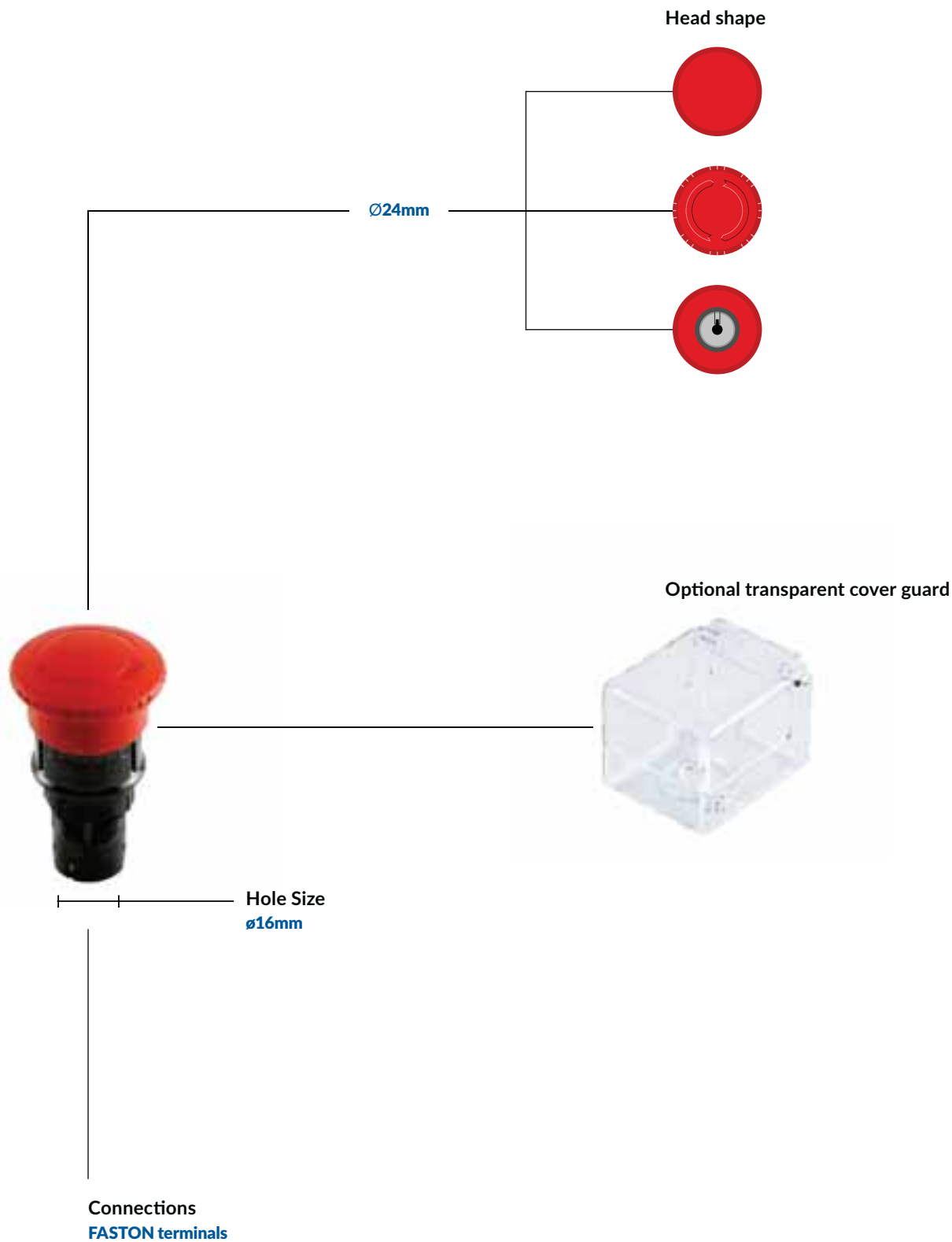


- 0 -		CD16/24 K3R3		CD16/24B K3R3
- - 2		CD16/24 K3R31		CD16/24B K3R31



Product diagram

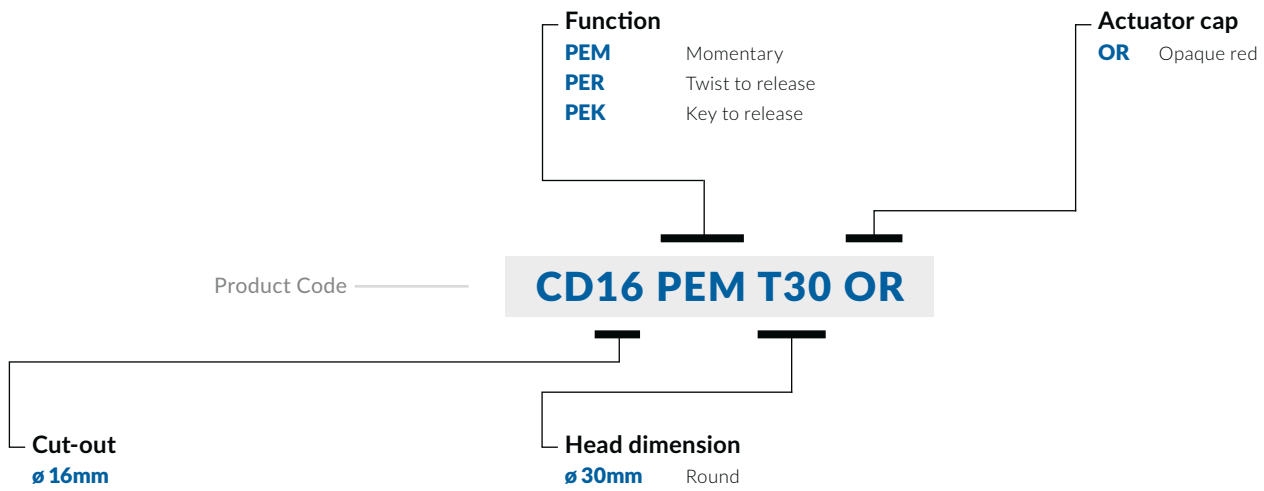
Emergency Pushbuttons Ø16mm



Product code structure

Emergency Pushbuttons Ø16mm

Emergency Pushbuttons Ø16mm



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



CD16 PEM, CD16 PER, CD16 PEK - Faston terminals CD16 GSP 2 and 3

Emergency Pushbuttons Ø16mm
and transparent cover guard

Head Ø30mm
Cut-out Ø16mm



Width 35mm
Height 34mm
Depth 44mm
Cut-out Ø18mm



Momentary mushroom head



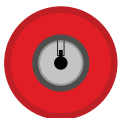
● Red	CD16 PEM T30 OR	-
-------	-----------------	---

Emergency mushroom - twist to release



● Red	CD16 PER T30 OR	-
-------	-----------------	---

Emergency mushroom - key release



● Red	CD16 PEK T30 OR	-
-------	-----------------	---

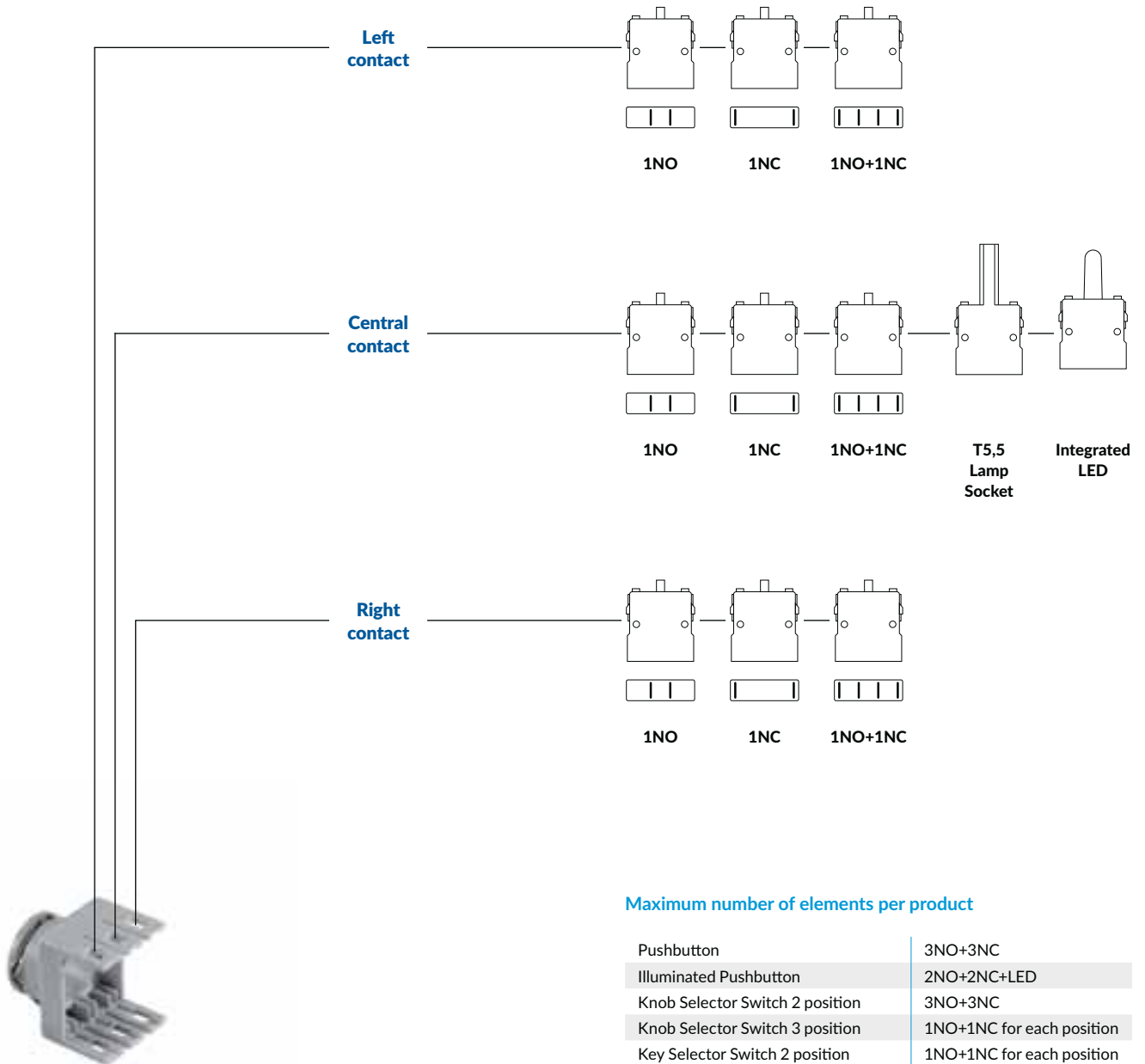
Cover guard

Transparent	-	CD16 GSP 2
Transparent + padlock	-	CD16 GSP 3

Product diagram

Contact elements and Contact block $\varnothing 16\text{mm}$

Contact elements and Contact block $\varnothing 16\text{mm}$



Maximum number of elements per product

Pushbutton	3NO+3NC
Illuminated Pushbutton	2NO+2NC+LED
Knob Selector Switch 2 position	3NO+3NC
Knob Selector Switch 3 position	1NO+1NC for each position
Key Selector Switch 2 position	1NO+1NC for each position
Key Selector Switch 3 position	1NO+1NC for each position
Emergency Pushbutton	3NO+3NC



CD16 Contact elements

Contact elements and Contact block ø16mm

Support base with contact and light elements

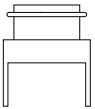
Support base
for contact elements



Contact elements

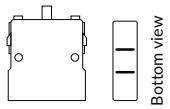


Support Base



CD16 BF3

Contact Element: Open

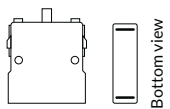


1NO (3-4) Open

-

CD16 ECN 01

Contact Element: Close

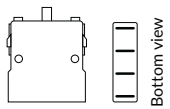


1NC (1-2) Close

-

CD16 ENC 10

Contact Element: Double



1NO + 1NC
(3-4 + 1-2) Double

-

CD16 ECN 20

CD16 Contact elements

Contact elements and Contact block ø16mm

Support base with contact and light elements

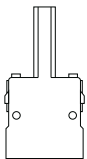
T5,5 Lamp Socket element



Integrated LED elements



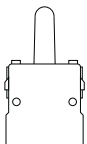
Element T5.5 Lamp Socket



CD16 EPL

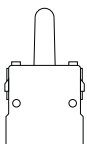
Attention! For more informations about LED lamps T5.5, please refer to page 172.

Integrated LED element



● Red	-	CD16 ELED R Vxx
● Green	-	CD16 ELED G Vxx
● Yellow	-	CD16 ELED Y Vxx
● Amber	-	CD16 ELED A Vxx
● Blue	-	CD16 ELED B Vxx
○ White	-	CD16 ELED W Vxx

Integrated LED element, Blinking Light



● Red	-	CD16 ELED BR Vxx
● Green	-	CD16 ELED BG Vxx
● Yellow	-	CD16 ELED BY Vxx
● Amber	-	CD16 ELED BA Vxx
● Blue	-	CD16 ELED BB Vxx
○ White	-	CD16 ELED BW Vxx

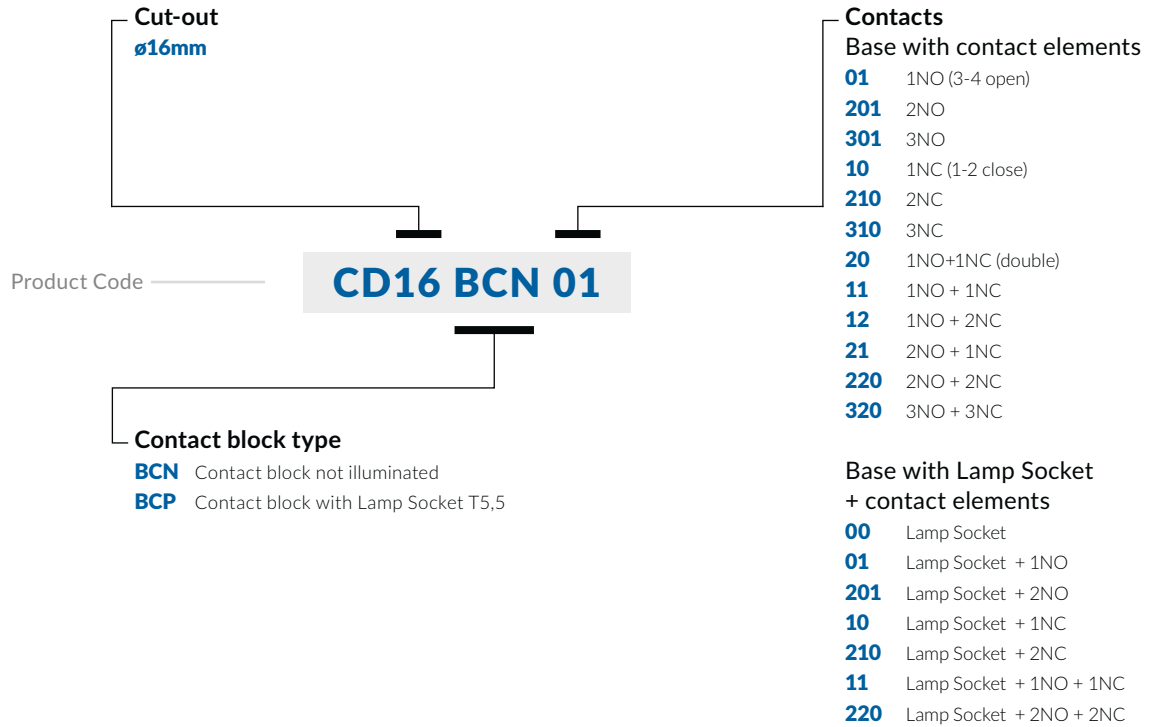
24V and 48V only



Product code structure

Contact block ø16mm

Contact block not illuminated and Contact block with Lamp Socket T5,5



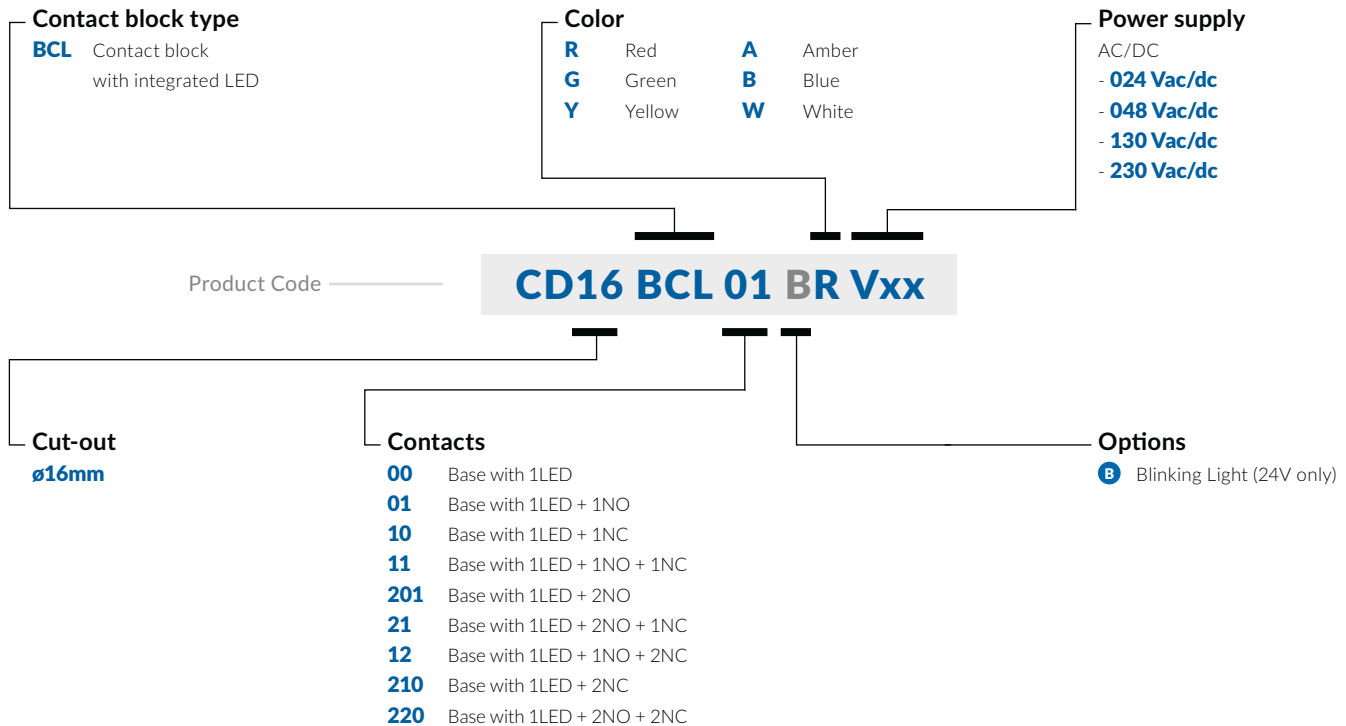
Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

Product code structure

Contact block ø16mm

Contact elements and Contact block ø16mm

Contact block illuminated with integrated LED



Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



Contact Blocks not Illuminated with support base

**Base with Contact Element Open**

Base with 1NO (3-4 open)	1	-	CD16 BCN 01
Base with 2NO	2	-	CD16 BCN 201
Base with 3NO	3	-	CD16 BCN 301

Base with Contact Element Close

Base with 1NC (1-2 close)	-	1	CD16 BCN 10
Base with 2NC	-	2	CD16 BCN 210
Base with 3NC	-	3	CD16 BCN 310

Base with Contact Element Double

Base with double contact	1	1	CD16 BCN 20
Base with 1NO + 1NC	1	1	CD16 BCN 11
Base with 1NO + 2NC	1	2	CD16 BCN 12
Base with 2NO + 1NC	2	1	CD16 BCN 21
Base with 2NO + 2NC	2	2	CD16 BCN 220
Base with 3NO + 3NC	3	3	CD16 BCN 320

CD16 BCP

Contact elements and Contact block ø16mm

Contact Blocks Illuminated with Lamp Socket for T5,5



Base with with Lamp Socket and Contact Element Open

Base with Lamp Socket	1	-	-	CD16 BCP 00
Base with 1BCP + 1NO	1	1	-	CD16 BCP 01
Base with 1BCP + 2NO	1	2	-	CD16 BCP 201

Base with with Lamp Socket and Contact Element Close

Base with 1BCP + 1NC	1	-	1	CD16 BCP 10
Base with 1BCP + 2NC	1	-	2	CD16 BCP 210

Base with with Lamp Socket and Contact Element Double

Base with 1BCP + 1NO + 1NC	1	1	1	CD16 BCP 11
Base with 1BCP + 2NO + 2NC	1	2	2	CD16 BCP 220

Attention! LED Lamps T5,5 not included



Contact Blocks illuminated with integrated LED

Contact Block
with integrated LED

LED | NO | NC

Base with luminous element

● Red	1	-	-	CD16 BCL 00 R Vxx
● Green	1	-	-	CD16 BCL 00 G Vxx
● Yellow	1	-	-	CD16 BCL 00 Y Vxx
● Amber	1	-	-	CD16 BCL 00 A Vxx
● Blue	1	-	-	CD16 BCL 00 B Vxx
○ White	1	-	-	CD16 BCL 00 W Vxx

B

Base with 1LED + 1NO

● Red	1	1	-	CD16 BCL 01 R Vxx
● Green	1	1	-	CD16 BCL 01 G Vxx
● Yellow	1	1	-	CD16 BCL 01 Y Vxx
● Amber	1	1	-	CD16 BCL 01 A Vxx
● Blue	1	1	-	CD16 BCL 01 B Vxx
○ White	1	1	-	CD16 BCL 01 W Vxx

B

Base with 1LED + 1NC

● Red	1	-	1	CD16 BCL 10 R Vxx
● Green	1	-	1	CD16 BCL 10 G Vxx
● Yellow	1	-	1	CD16 BCL 10 Y Vxx
● Amber	1	-	1	CD16 BCL 10 A Vxx
● Blue	1	-	1	CD16 BCL 10 B Vxx
○ White	1	-	1	CD16 BCL 10 W Vxx

B

Base with 1LED + 1NO + 1NC

● Red	1	1	1	CD16 BCL 11 R Vxx
● Green	1	1	1	CD16 BCL 11 G Vxx
● Yellow	1	1	1	CD16 BCL 11 Y Vxx
● Amber	1	1	1	CD16 BCL 11 A Vxx
● Blue	1	1	1	CD16 BCL 11 B Vxx
○ White	1	1	1	CD16 BCL 11 W Vxx

B

CD16 BCL

Contact elements and Contact block $\varnothing 16\text{mm}$

Contact Blocks illuminated with integrated LED

LED	NO	NC
-----	----	----

Base with 1LED + 2NO

● Red	1	2	-	CD16 BCL 201 R Vxx
● Green	1	2	-	CD16 BCL 201 G Vxx
● Yellow	1	2	-	CD16 BCL 201 Y Vxx
● Amber	1	2	-	CD16 BCL 201 A Vxx
● Blue	1	2	-	CD16 BCL 201 B Vxx
○ White	1	2	-	CD16 BCL 201 W Vxx

B

Base with 1LED + 2NO + 1NC

● Red	1	2	1	CD16 BCL 21 R Vxx
● Green	1	2	1	CD16 BCL 21 G Vxx
● Yellow	1	2	1	CD16 BCL 21 Y Vxx
● Amber	1	2	1	CD16 BCL 21 A Vxx
● Blue	1	2	1	CD16 BCL 21 B Vxx
○ White	1	2	1	CD16 BCL 21 W Vxx

B

Base with 1LED + 1NO + 2NC

● Red	1	1	2	CD16 BCL 12 R Vxx
● Green	1	1	2	CD16 BCL 12 G Vxx
● Yellow	1	1	2	CD16 BCL 12 Y Vxx
● Amber	1	1	2	CD16 BCL 12 A Vxx
● Blue	1	1	2	CD16 BCL 12 B Vxx
○ White	1	1	2	CD16 BCL 12 W Vxx

B

Base with 1LED + 2NC

● Red	1	-	2	CD16 BCL 210 R Vxx
● Green	1	-	2	CD16 BCL 210 G Vxx
● Yellow	1	-	2	CD16 BCL 210 Y Vxx
● Amber	1	-	2	CD16 BCL 210 A Vxx
● Blue	1	-	2	CD16 BCL 210 B Vxx
○ White	1	-	2	CD16 BCL 210 W Vxx

B

Base with 1LED + 2NO + 2NC

● Red	1	2	2	CD16 BCL 220 R Vxx
● Green	1	2	2	CD16 BCL 220 G Vxx
● Yellow	1	2	2	CD16 BCL 220 Y Vxx
● Amber	1	2	2	CD16 BCL 220 A Vxx
● Blue	1	2	2	CD16 BCL 220 B Vxx
○ White	1	2	2	CD16 BCL 220 W Vxx

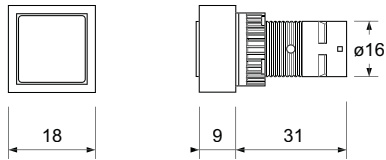
B



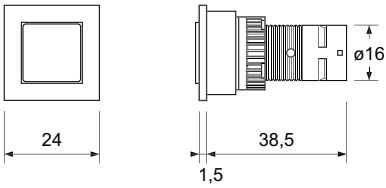
CD16 component dimensions $\varnothing 16\text{mm}$

CD16/18 PSM

A type Protruding

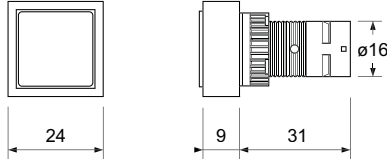


B type Flush Mounting

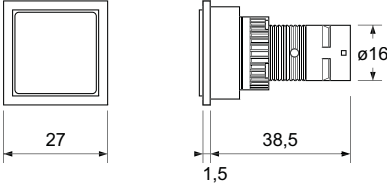


CD16/24 PSM

A type Protruding

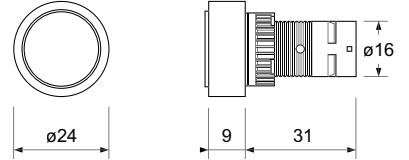


B type Flush Mounting



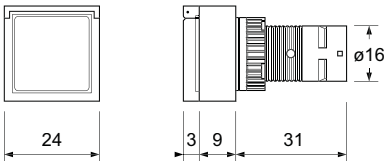
CD16/24 PRM

A type Protruding

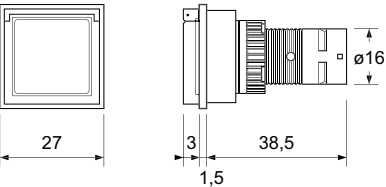


CD16/24 PGM

A type Protruding

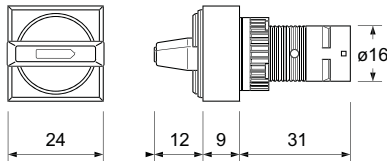


B type Flush Mounting

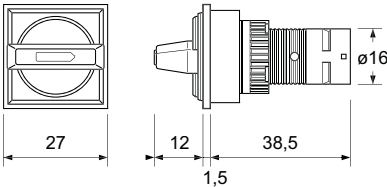


CD16/24 S2F

A type Protruding

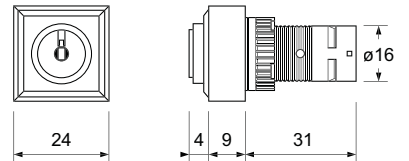


B type Flush Mounting

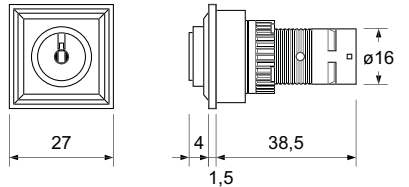


CD16/24 K2F

A type Protruding

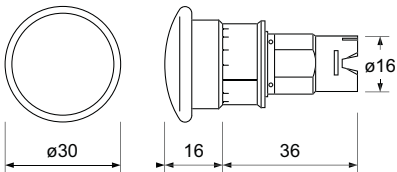


B type Flush Mounting



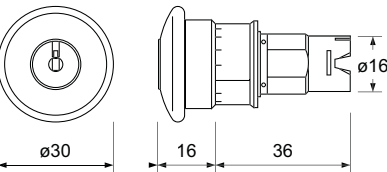
CD16 PEM

A type Protruding



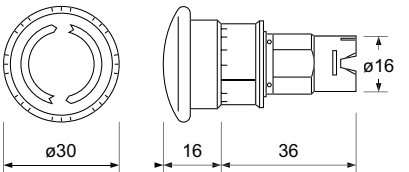
CD16 PER

A type Protruding



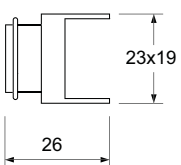
CD16 PEK

A type Protruding

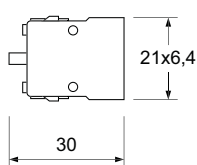


Contact elements

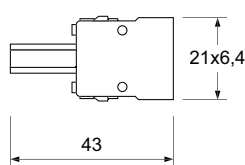
Support base



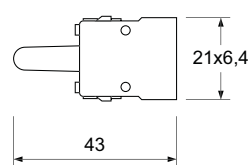
Contact element



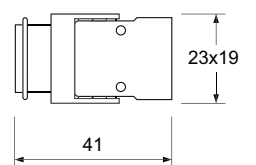
Element T5,5 Lamp Socket



Integrated LED element



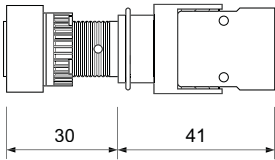
Contact block



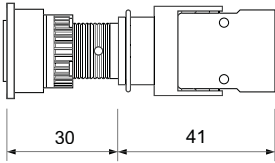
CD16 component dimensions $\varnothing 16\text{mm}$

CD16/18 PSM + Contact block

A type Protruding

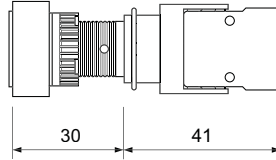


B type Flush Mounting

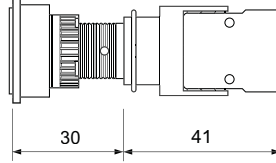


CD16/24 PSM + Contact block

A type Protruding

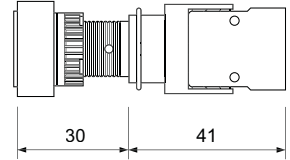


B type Flush Mounting



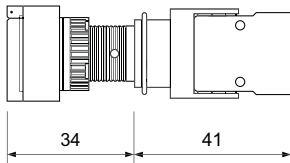
CD16/24 PRM + Contact block

A type Protruding

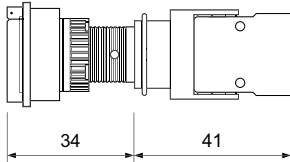


CD16/24 PGM + Contact block

A type Protruding

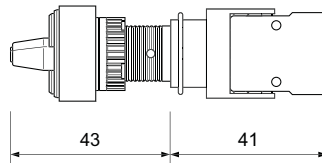


B type Flush Mounting

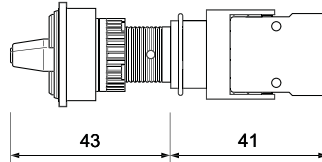


CD16/24 S2F + Contact block

A type Protruding

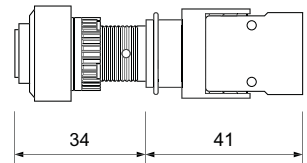


B type Flush Mounting

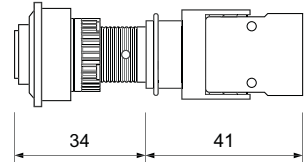


CD16/24 K2F + Contact block

A type Protruding

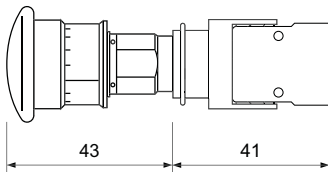


B type Flush Mounting



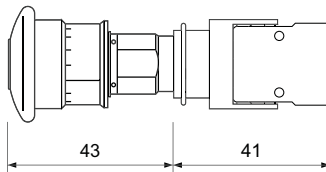
CD16 PEM + Contact block

A type Protruding



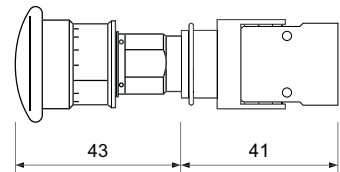
CD16 PER + Contact block

A type Protruding



CD16 PEK + Contact block

A type Protruding





Safety and Light

Ai1 - All in one



Ai1 - All in one

Technical features

Conforming to standards:

IEC 947-5-1 - CEI 7.45 - EN 60947.5.1

Protective treatment: **Standard version: "TC"**

Working temperature: **-25°C +65°C**

Rated insulation voltage: **Ui 690 A.C.**

Level of pollution: **Class 3**

Compliance with RoHS directives: **yes**

Weight: **154g (Ai1 3F Base version)**

211g (Ai1 3F LED Full version)

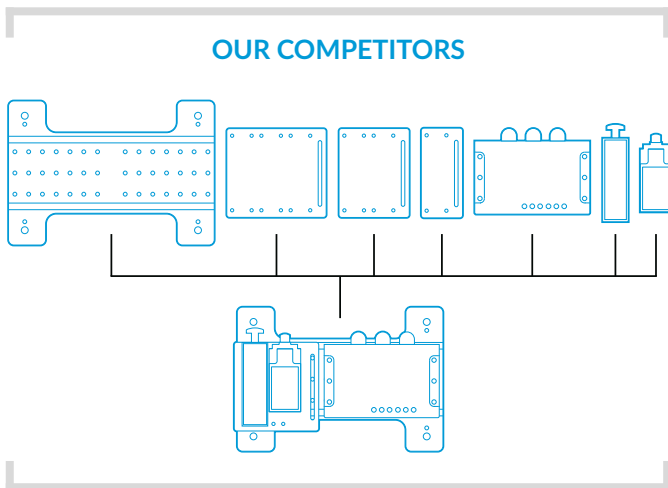
188g (Ai1 LED Light version)

Customs tariff: **85389091**



The installation of the Ai1 - flashing signalling device - can prevent accidents by alerting with flashing lights the operator that the electrical system is switched on.

Ai1 flashing signalling devices are installed in a position where they are visible when opening the door of the cabinet. The three red lights flashing warn of the hazardous condition of the power line.



Light intensity: 3,6W 308lm.
Number of LEDs: 44.
Light consumption: 80mA on 36V max.
Light color: white.



Available with Buzzer sound 80db (optional).



Integrated limit and interlock switch (also available with magnetic switch).



Contact 1NO+1NC:
normally used to switch on lighting and to switch off fans or conditioners.



Operative in:
three-phase 380V or
single-phase 220V.

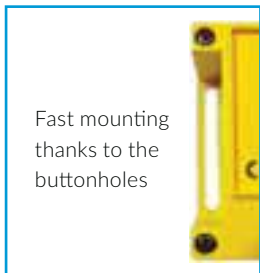


Flashing signalling devices with interlock limit switch

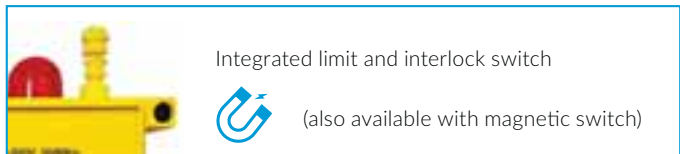
AI1 3F



Standard model	AI1 3F
Standard model + sound	AI1 3F A



Fast mounting thanks to the buttonholes



Integrated limit and interlock switch



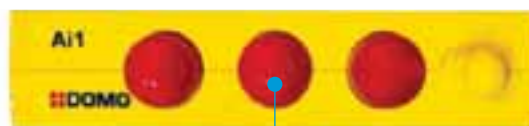
(also available with magnetic switch)



Buzzer sound 80db (optional)

Contact 1NO+1NC: usually used to switch on lighting and to switch off fans or conditioners

High intensity thanks to the three flashing powerful LEDs.



AI1 3F LED

Ai1 - All in one

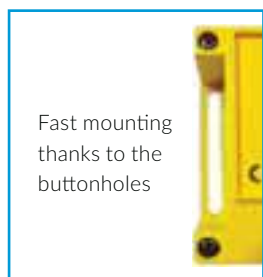
Flashing signalling devices with interlock limit switch and light

AI1 3F LED

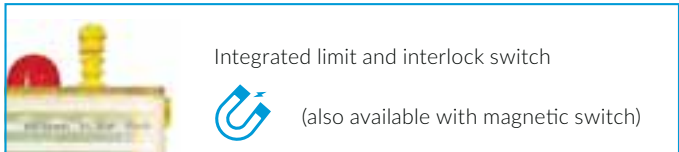


Full model
Full model + sound

AI1 3F LED
AI1 3F A LED



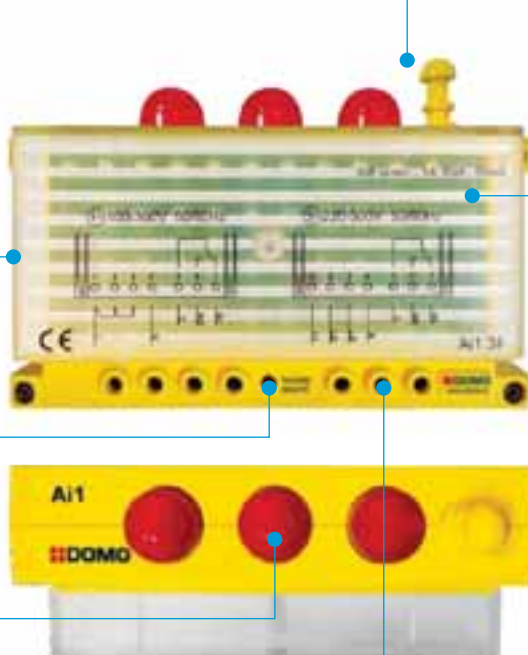
Fast mounting thanks to the buttonholes



Integrated limit and interlock switch



(also available with magnetic switch)



Buzzer sound 80db (optional)

High intensity thanks three flashing LEDs ultrapower



Light intensity: 3,6W 308lm

Number of LEDs: 44

Light consumption: 80mA on 36V max

Light color: white

Contact 1NO+1NC:
usually used to switch on lighting and to switch off fans or conditioners



LED electronic lamp universal power supply

AI1 LED

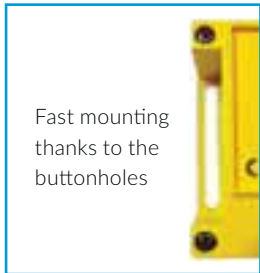


Lamp model

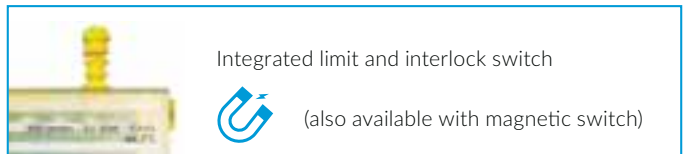
AI1 LED

Lamp model + switch

AI1 LED S



Fast mounting thanks to the buttonholes



Integrated limit and interlock switch



(also available with magnetic switch)



Power supply voltage:
from 48V to 240V



Light intensity:
3,6W 308lm

Number of LEDs:
44

Light consumption:
80mA on 36V max

Light color:
white

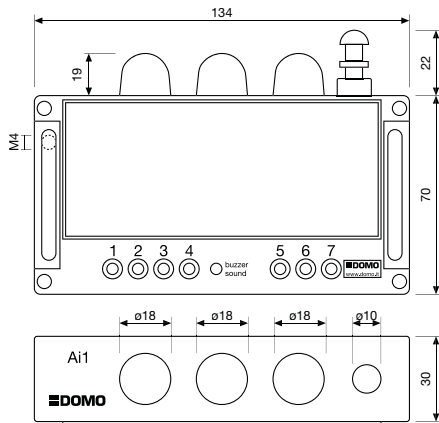


Ai1 connections

Ai1 - All in one

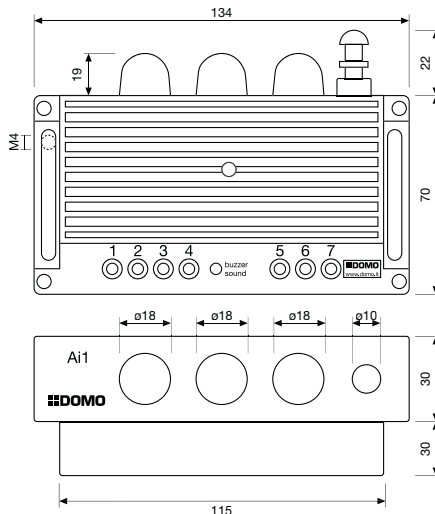
Ai1 3F

Dimensions mm



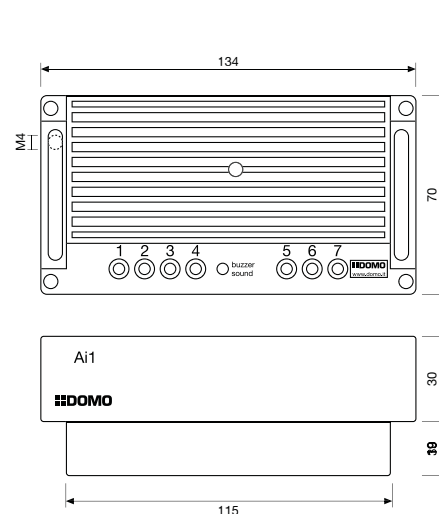
Ai1 3F LED

Dimensions mm



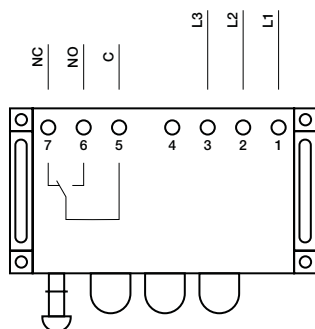
Ai1 LED

Dimensions mm



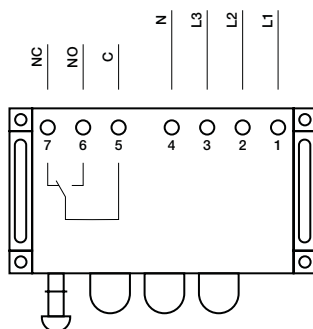
3 Three-phase 220÷500 V, 50/60 Hz

(without light only)

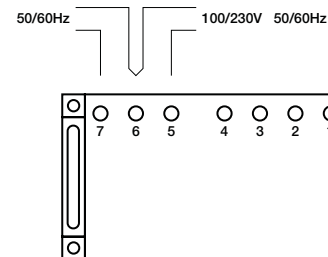


3 Three-phase 220÷500 V, 50/60 Hz

(with or without light)

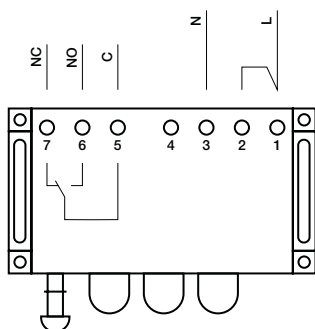


Light only



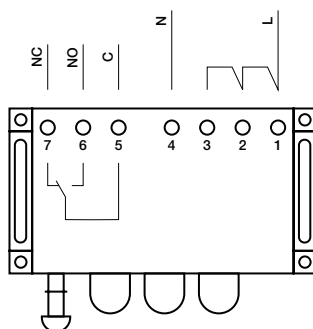
1 One-phase 220÷400V, 50/60 Hz

(without light only)



1 One-phase 100÷300 V, 50/60 Hz

(with or without light)



Accessories and spare parts Ø16mm

Round label holder



SIM16/24 PTR

Square label holder



SIM16/24 PTS

Fastener for type B elements



ASB18
ASB24

Reducer ring from ø22mm to ø16mm



ARF 22/16

Labels



SIM16/24 TOW

Protective slides



SIM16/24 VPK

Tightening wrench



ACK 22/16

Contact ring filler for Pushbutton Switches' central contact.



CD16 A3 EC

Accessories and spare parts Ø22mm

Round label holder



SIM22/30 PTR

Square label holder



SIM22/30 PTS

Fastener for type B elements



ASB 30

Reducer ring from Ø30mm to Ø22mm



ARF 30/22

Labels



SIM22/30 TOW

Protective slides



SIM22/30 VPK

Tightening wrench



ACK 22/16

Lamp extractor

Attention!
Only compatible with:
BA9s, BA7s, T5.5, T5.5k, MG

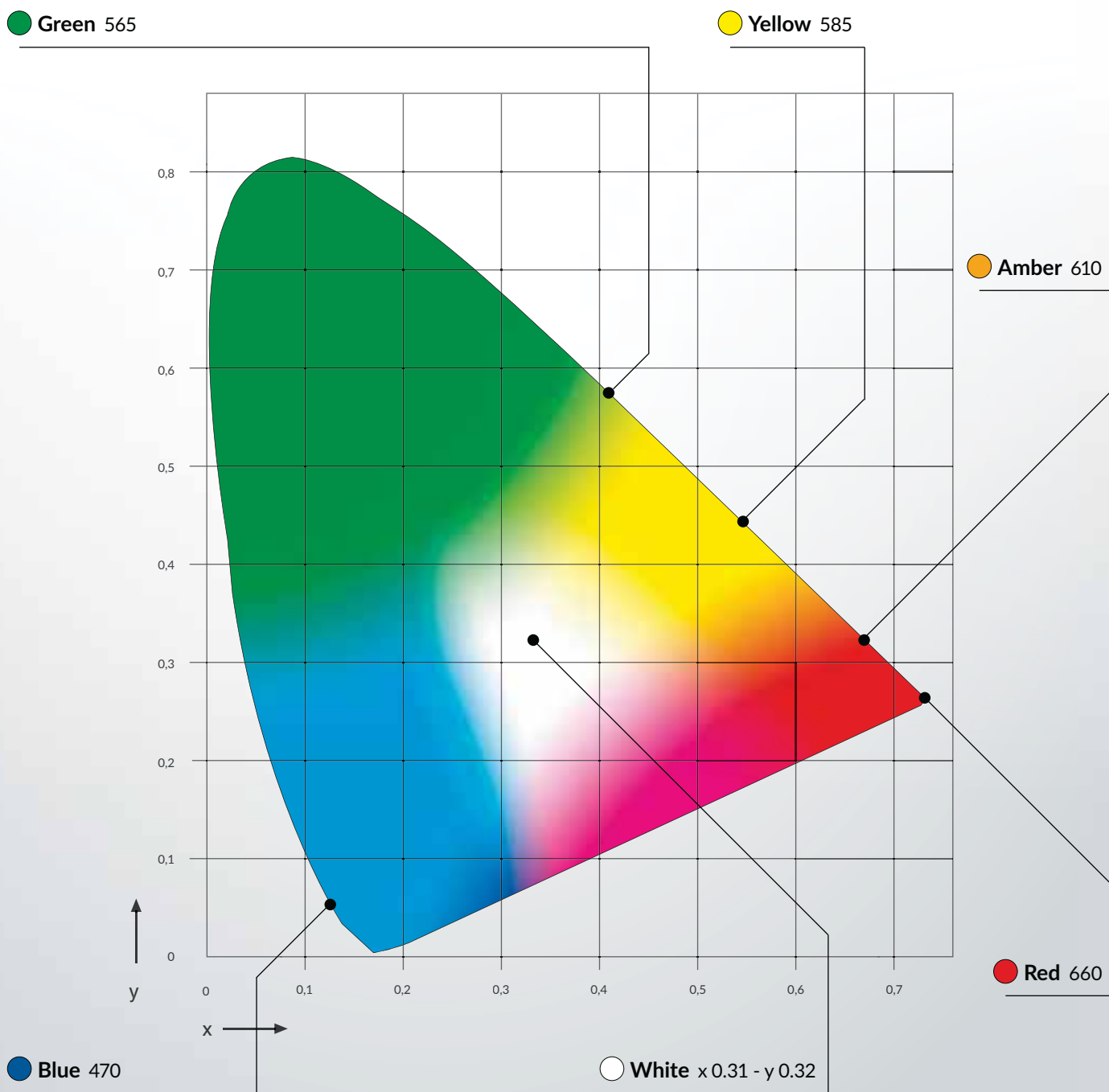


AEL BA9s/T5,5

CIE chromatic diagram

CIE chromaticity diagram. All possible color coordinates (X, Y) are on or inside the horseshoe curve.

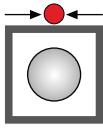

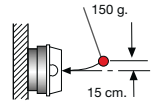
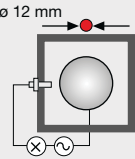

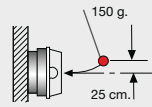
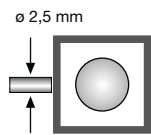
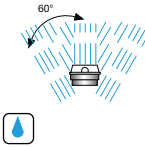
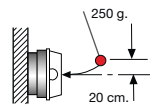
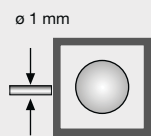
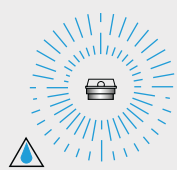
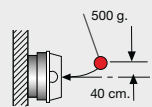
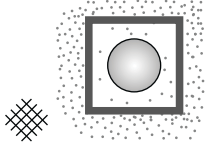
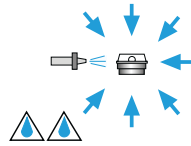
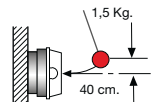
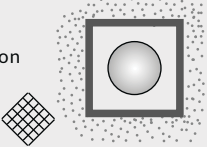
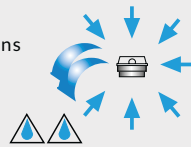
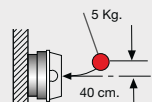
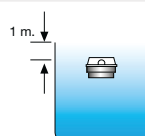
Pure colors lie on the curve, whereas the white point has the coordinates (1/3, 1/3).



Protection degrees


The following table classifies the various types of envelope according to the EN 60 539 (IP) and IEC-529. The different degrees of protection provided by enclosures (IP code).


Protection followed by the 3 characteristic numbers indicating:
1st number (protections against solid bodies)
2nd number (protections against liquid bodies)
3rd number (protections against mechanical bodies)

1st (EN 60 539 - IEC 529) Characteristic Number		2nd (EN 60 539 - IEC 529) Characteristic Number		3rd (EN 60 539 - IEC 529) Characteristic Number	
IP	TEST	IP	TEST	IP	TEST
0	No protection	0	No protection	0	No protection
1	Protection against solid bodies greater than $\varnothing 50$ mm. 	1	Protection against the vertical falling of drops of water 	1	Protection against striking energy 0,15 JOULES 
2	Protection against solid bodies greater than $\varnothing 12$ mm. 	2	Protection against the vertical falling of drops of water (max. inclination 15°) 	2	Protection against striking energy 0,20 JOULES 
3	Protection against solid bodies greater than $\varnothing 2,5$ mm. 	3	Protection against the vertical falling of drops of water (max. inclination 60°) 	3	Protection against striking energy 0,35 JOULES 
4	Protection against solid bodies greater than $\varnothing 1$ mm. 	4	Protection against sprays of water 	4	Protection against striking energy 0,70 JOULES 
5	Protection against dust (no harmful deposit) 	5	Protection against jets of water from all directions 	5	Protection against striking energy 2 JOULES 
6	Total protection against dust 	6	Protection from projections of water similar to marine swells 	6	Protection against striking energy 10 JOULES 
		7	Protection against the effects of immersion 		

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LED Indicators



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Pushbutton Switches



Switchgears



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Safety and Light



Mosaic Mimic Panels