



COMELETRIC

Specialized rotary and control switches

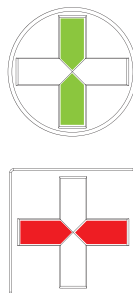
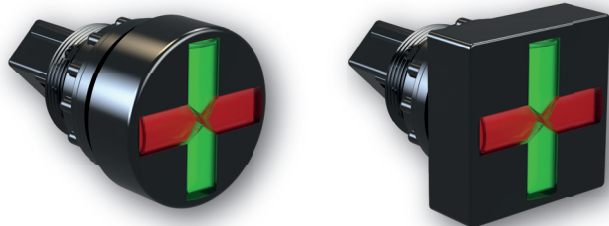
*LED Semaphore Indicators
& Pilot Lights*





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SUS-09 Model:



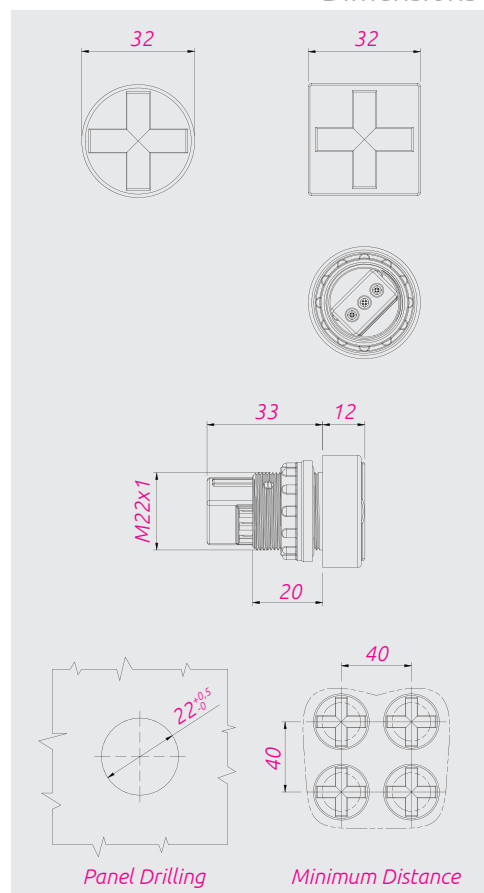
φ 22 mm



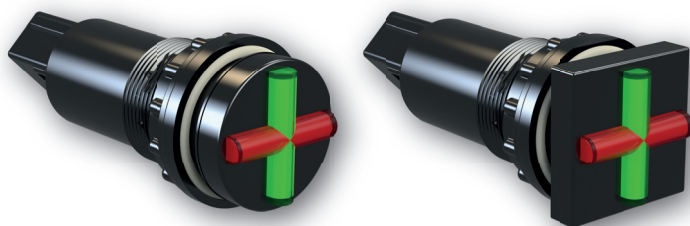
Technical information

Standard Supply Voltage	48-125-220 and Test Lamp types = available with AC or DC (to be indicated) 12-24-110-130 = available with AC/DC
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red/Green as standard. Others available on request.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm².
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Flashing.

Dimensions



SUS-01 Model:



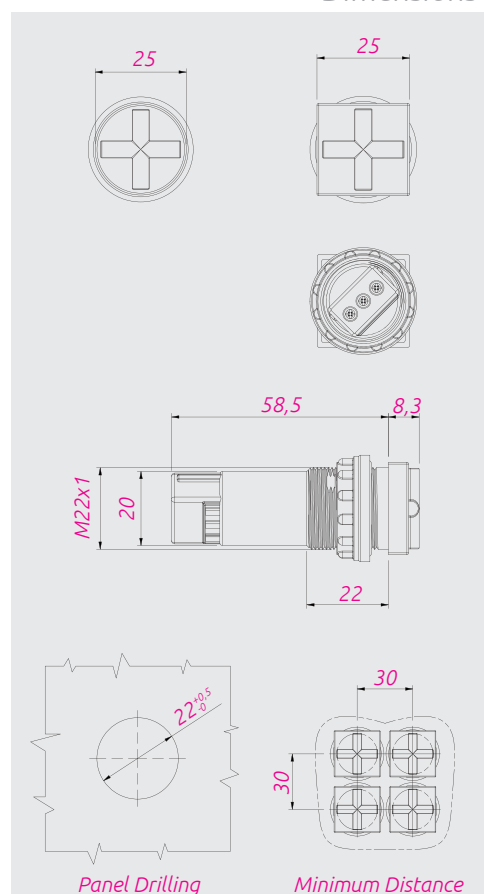
φ 22 mm



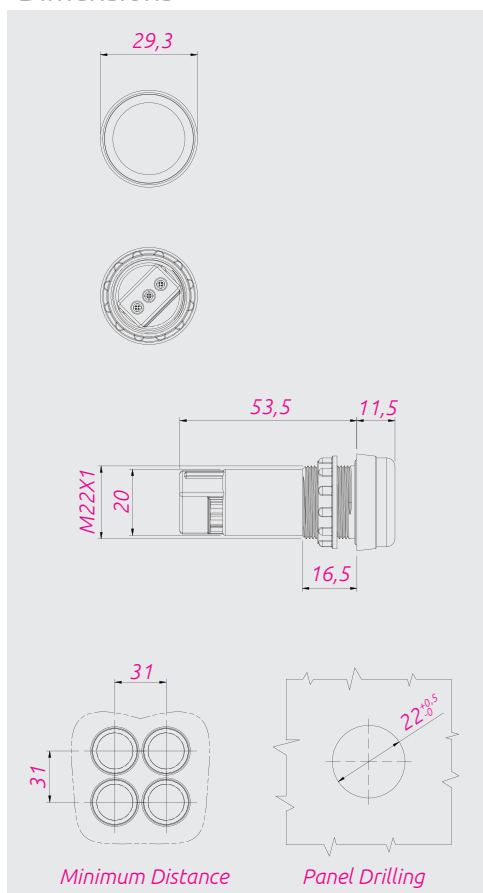
Technical information

Standard Supply Voltage	12 – 24 – 48 - 110 – 125 – 130 – 220 = AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red/Green as standard. Others available on request.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm².
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Flashing.

Dimensions



Dimensions



HIS-95 Model:



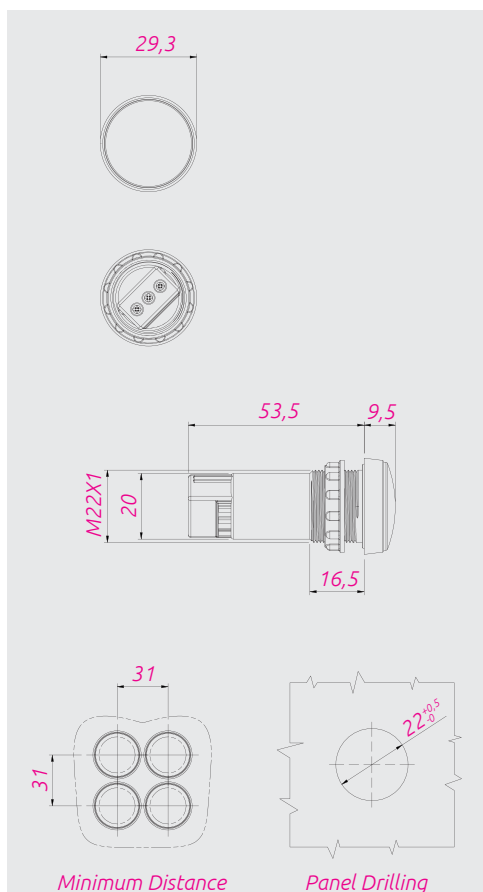
φ 22 mm



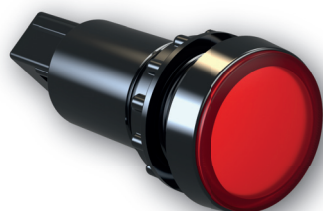
Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 and Test Lamp types = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Double colour. Flashing.

Dimensions



HIS-06 Model:



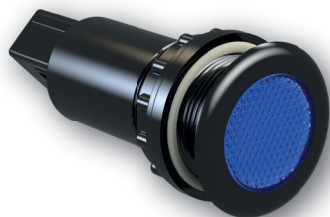
φ 22 mm



Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 and Test Lamp types = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Double colour. Flashing.

CLS-99 Model:



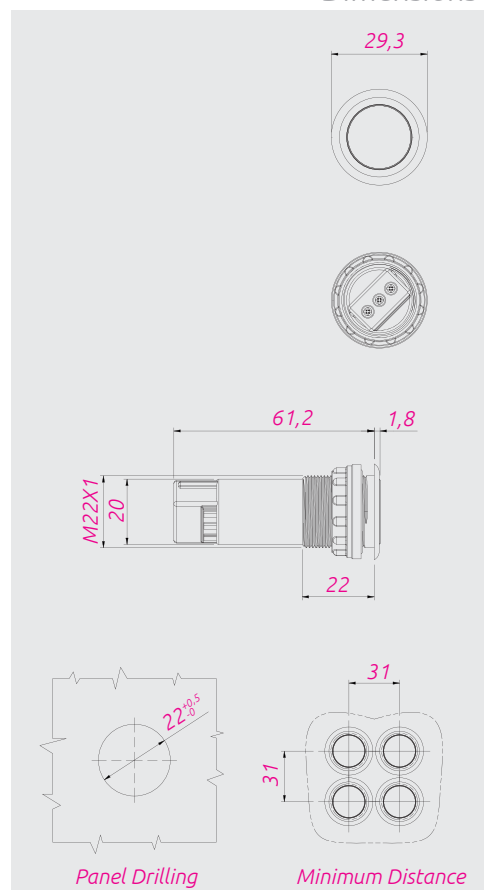
φ 22 mm



Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 and Test Lamp types = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Double colour. Flashing.

Dimensions



CLS-99 G501 e G502 Model:



SYMBOL: DRAW UP



SYMBOL: GROUNDING

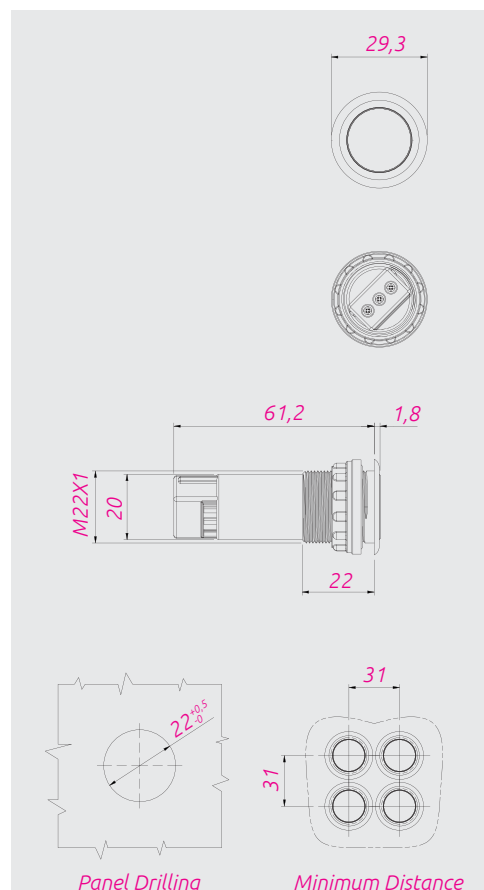
φ 22 mm



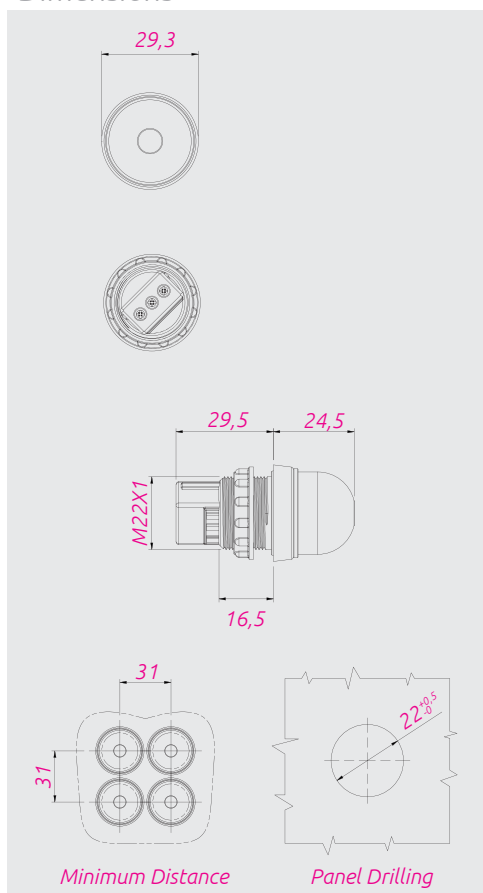
Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 and Test Lamp types = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Double colour. Flashing.

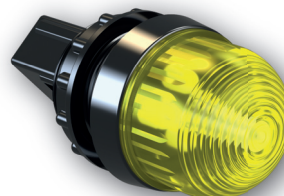
Dimensions



Dimensions



H15-12K Model:



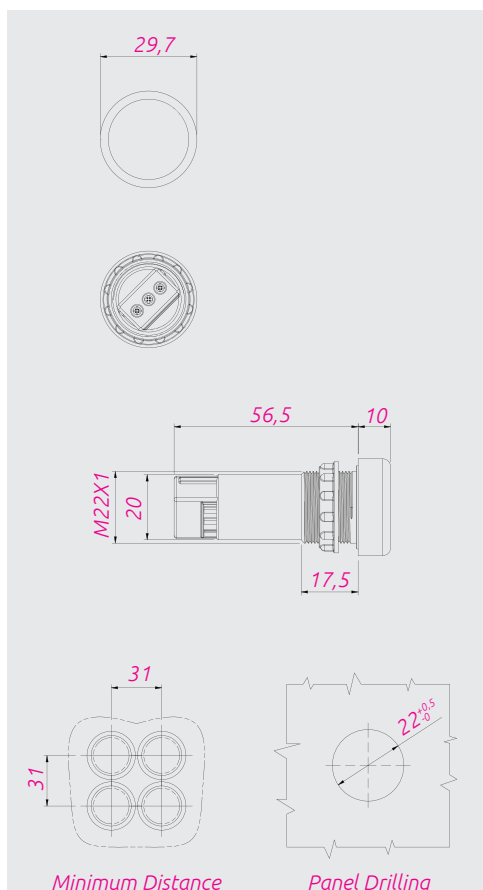
φ 22 mm



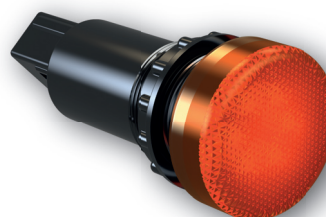
Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 and Test Lamp types = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Double colour. Flashing.

Dimensions



E15-96 Model:



φ 22 mm



Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 and Test Lamp types = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Double colour. Flashing.

V15-980 Model:



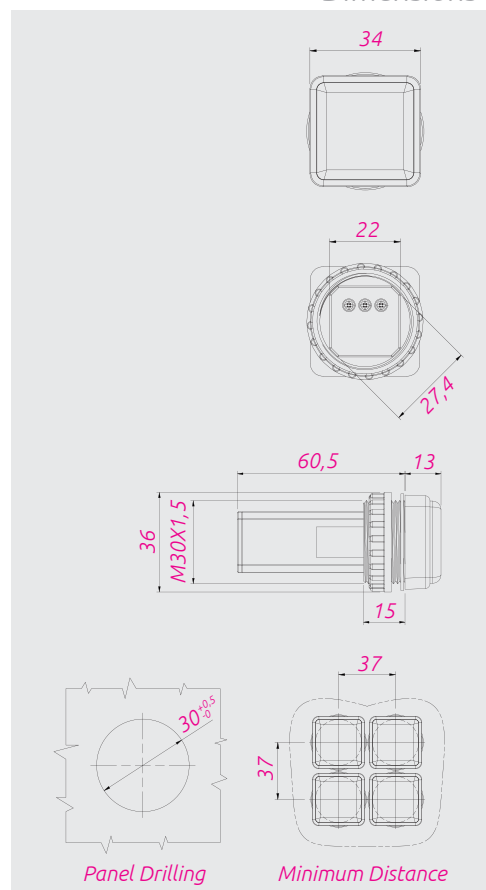
φ 30 mm



Technical information

Standard Supply Voltage	12 – 24 – 110 – 130 = available with AC/DC 48 – 125 – 220 = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal.
Option	Double colour. Flashing.

Dimensions



SH5-06 Model:



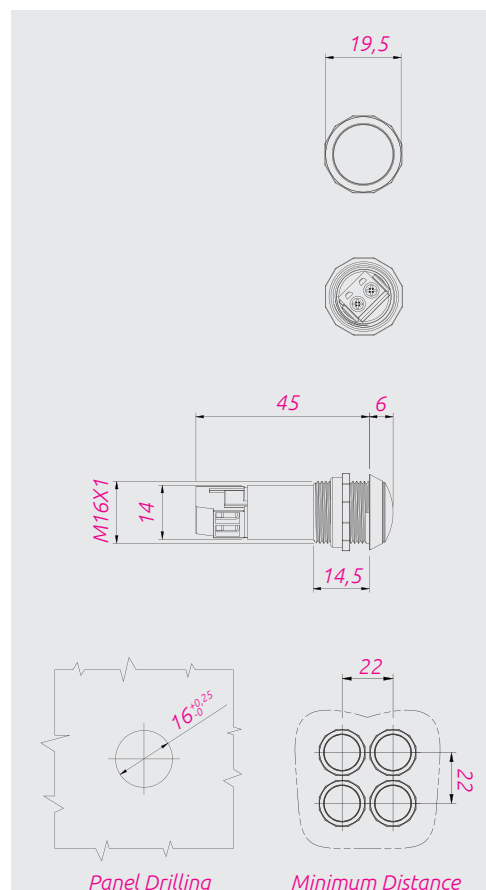
φ 16 mm



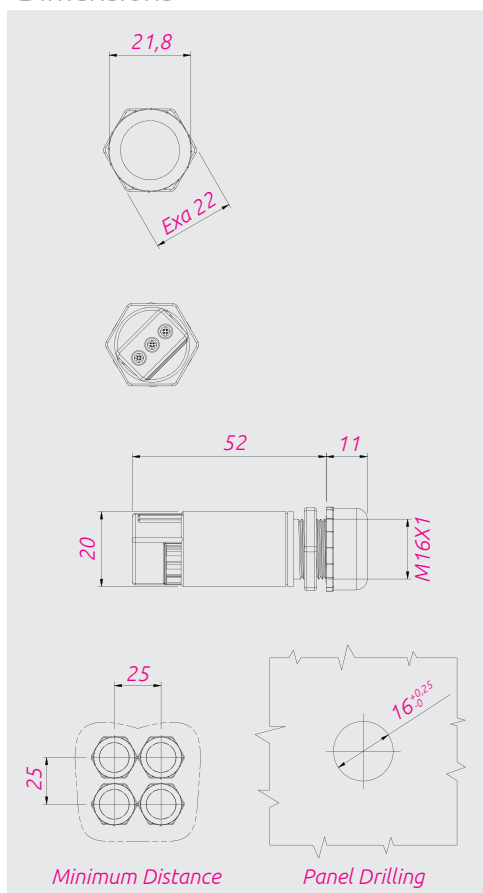
Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 and Test Lamp types = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Double colour. Flashing.

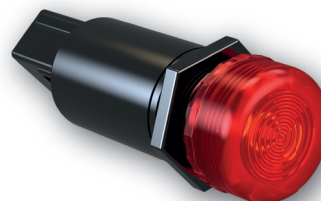
Dimensions



Dimensions



15-99 Model:



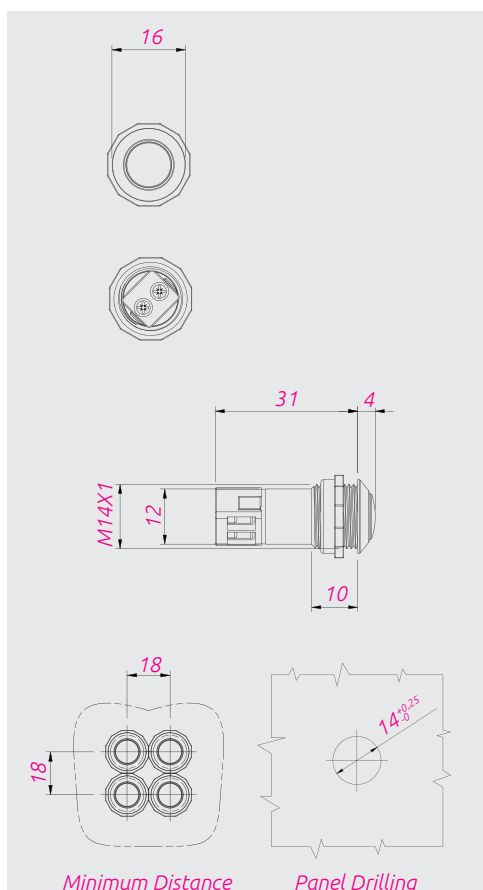
φ 16 mm



Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 and Test Lamp types = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 10 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal. Faston available on request
Option	Model with Test Lamp (available only with Faston connection). Double colour. Flashing.

Dimensions



525-06 Model:



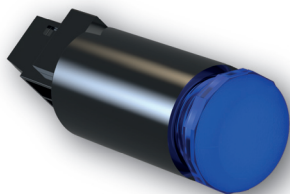
φ 14 mm



Technical information

Standard Supply Voltage	12 – 24 – 48 – 110 – 125 – 130 – 220 = AC or DC (to be indicated).
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 5 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal.
Option	Double Colour Flashing up 60V. – Flashing over 60V has a housing 44 mm long.

K15-01 Model:



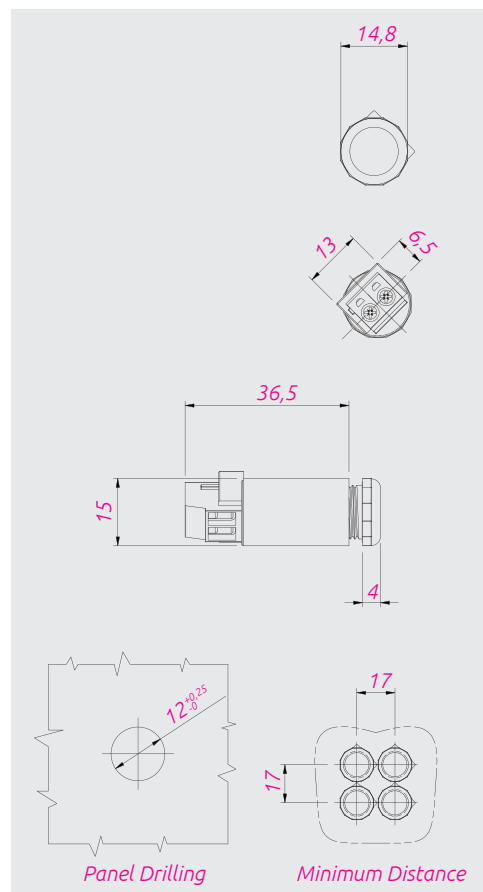
φ 12 mm



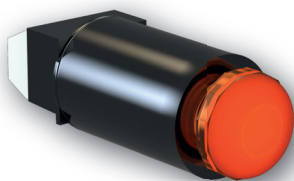
Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 5 mm.
Permissible Wire Gage	Max 1,5 mm².
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal.
Option	Flashing.

Dimensions



SMS-99.1 Model:



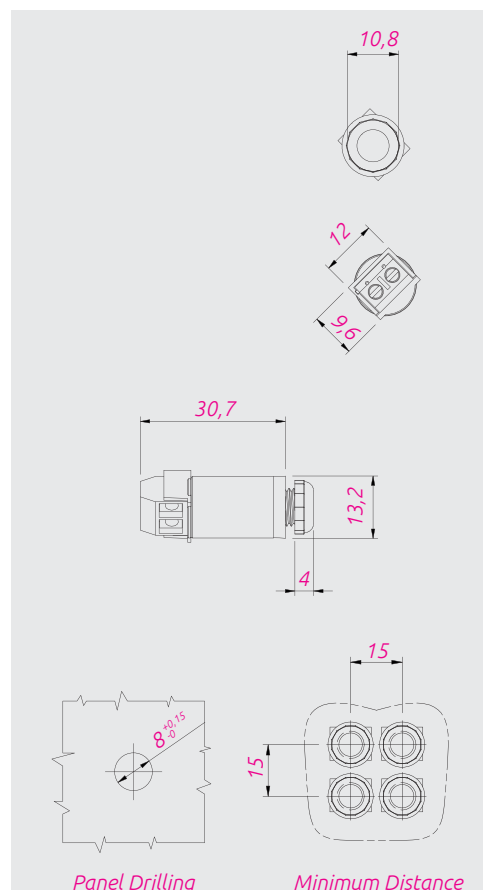
φ 8 mm



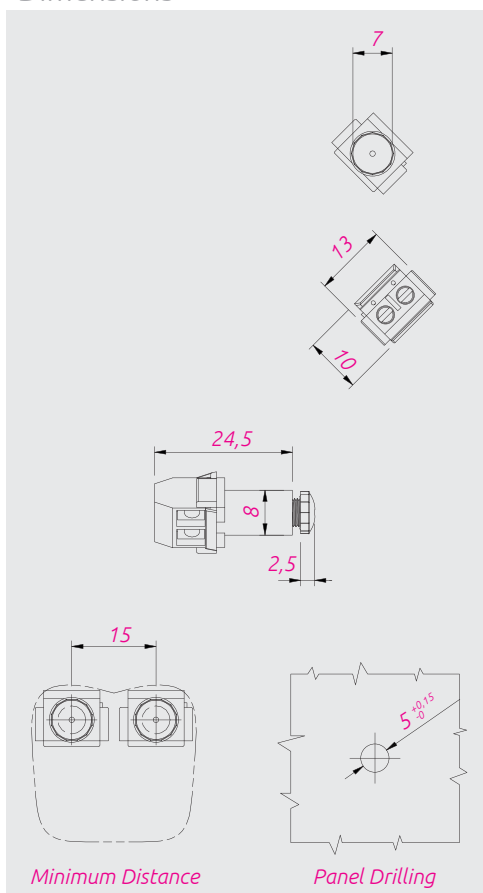
Technical information

Standard Supply Voltage	12-24-110-130 = available with AC/DC 48-125-220 = available with AC or DC (to be indicated)
Running Voltage Tolerance	± 20%
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 3 mm.
Permissible Wire Gage	Max 1,5 mm².
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal.
Option	Flashing.

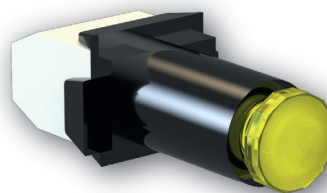
Dimensions



Dimensions



VMS-99.1 Model:



$\phi 5 \text{ mm}$



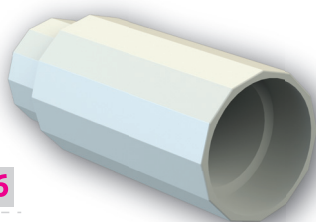
Technical information

Standard Supply Voltage	12-24-48-110-125-130-220 = AC or DC (to be indicated)
Running Voltage Tolerance	$\pm 20\%$
Nominal Current	20 mA.
LED Service Life	Up to 100.000 hours
Protection	IP65 – Front Panel IP20 – Screw Terminals
Colour	Red, Green, Yellow, Orange, Blue, White.
Panel Thickness	Max 3 mm.
Permissible Wire Gage	Max 1,5 mm ² .
Operating Temperature	-25° to +60° C.
Connection	Screw Terminal.
Option	-----

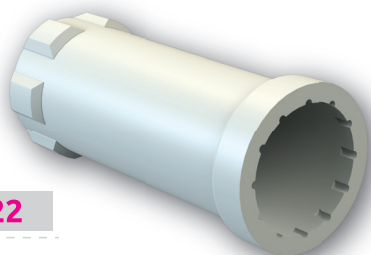
ACCESSORIES ACCESSORI

Chiavi di fissaggio - Fixing tools

M 12/16

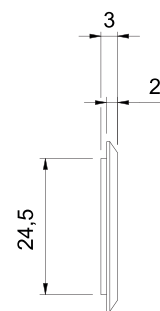
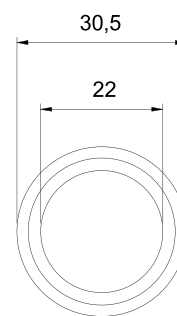


M 22

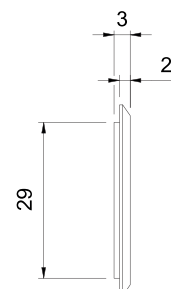
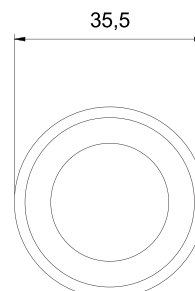


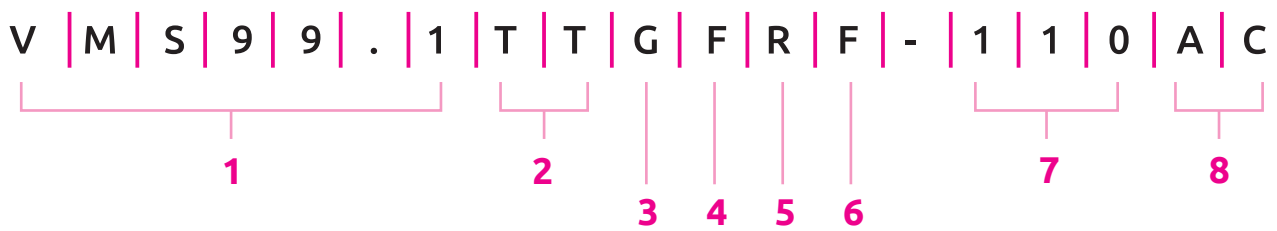
Reduction - Riduzioni

R 22/25



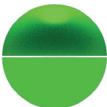
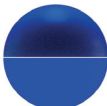
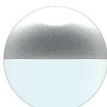
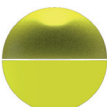
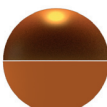
R 22/30



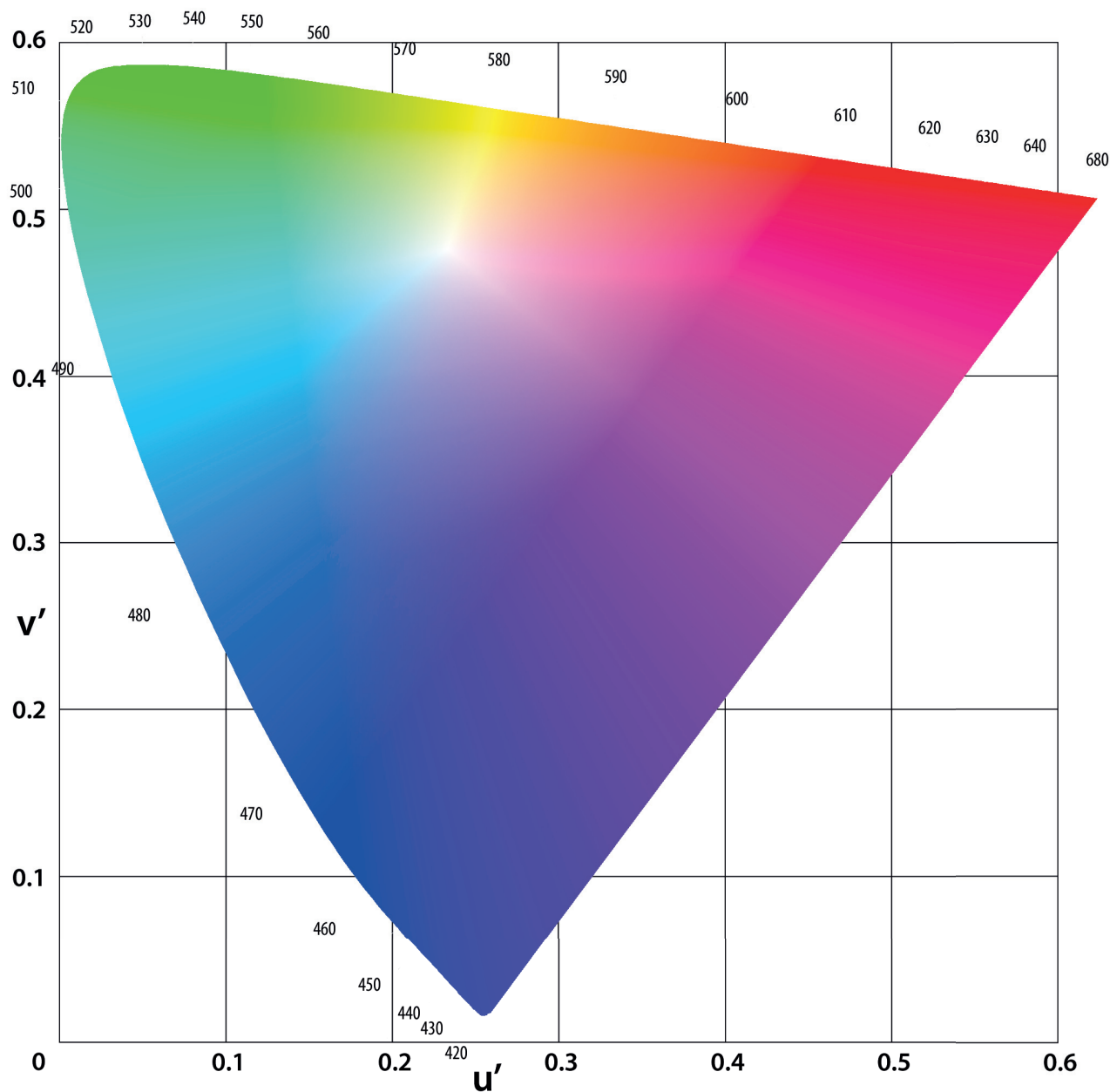


Coding
1 - Model
2 - Test lamp (One T standard, two T for double connection)
3 - Colours for indicators
4 - Flashing
5 - Second colours for semaphore or double colour
6 - Flashing for second colour
7 - Voltage
8 - Indicates if only AC or DC

COLOURS COLORI

	R - Red / Rosso
	G - Green / Verde
	B - Blue / Blu
	W - White / Bianco
	Y - Yellow / Giallo
	O - Orange / Arancione

CIE 1931 - COLOUR SPACE CHROMATICITY DIAGRAM





COMELETRIC was established in 1960 in Milan as leading company for the design and the manufacturing of selector and control switches, discrepancy switches, lockout relays, interlocking devices, LED Pilot lights and semaphore indicators.

With its more than 50 years of experience, **COMELETRIC** has become trusted partner for the most renowned Electric and Railways Utilities all over the world.

Thanks to a skilled design team, advanced technologies, strict industrial control procedures and strong and long term suppliers relationships, **COMELETRIC** is able to develop and manufacture customized products with very flexible delivery terms.

COMELETRIC is daily pursuing the firm choice of providing tailor made products.

All Company activities are in full accordance with ISO 9001:2015 Standard.

COMELETRIC è stata fondata a Milano nel 1960 come azienda leader per la progettazione e la produzione di selettori e commutatori, manipolatori, relè di blocco, sistemi di interblocco, indicatori e segnalatori di posizione a LED.

Con gli oltre 50 anni di esperienza, **COMELETRIC** è divenuta il partner affidabile per le più rinomate aziende Elettriche e Ferroviarie nel mondo.

Grazie ad una esperta squadra di progettisti, a tecnologie avanzate, a rigide procedure di controllo industriale, a forte e duratura relazione con i fornitori, **COMELETRIC** è in grado di sviluppare e produrre prodotti personalizzati con tempi di consegna molto flessibili.

COMELETRIC persegue quotidianamente la ferma scelta di fornire prodotti su misura.

Tutte le attività aziendali sono in totale conformità con le norme ISO 9001:2015.

C-PLSM 09/18

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COMELETRIC.IT

