

EAO – Your Expert Partner for
Human Machine Interfaces



EAO Product Information

Series 17



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Product Assembly

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Product Information

General notes

The LED indicators are fitted with an integrated series resistor so that additional wiring can be dispensed with.

The different front versions, such as:

- internal/external reflector
- flat front
- satin-chrome or black-chrome
- optical lens

allow them to be used in most frequent applications.

Mounting

Mounted from the front through cut out.

The indicators are secured to the panel by means of a fixing nut and washer.

Terminals

Connection is through plug-in terminals 2.0 x 0.5 mm or 2.8 x 0.8 mm.

The anode (+) and cathode (-) are marked at the rear.

*We reserve the right to modify technical data
All dimensions in mm*

Indicator, raised mounting



- 1 Indicator
- 2 Fixing nut

Indicator 6 mm dia., LED 3 mm



	Front protection	Reflector	Light colour	Lumi. Intensity	Operating voltage/-current	Terminals	Ø 7 mm Typ-Nr.	Technical drawing	
Indicator 6 mm dia., LED 3 mm	IP 40	Metal satin-chrome exterior	green	6	24 VDC, 15 mA	PT	17-020351	1	0.003
			red	8	24 VDC, 15 mA	PT	17-020350	1	0.003
			white	410	24 VDC, 15 mA	PT	17-02035W	1	0.003
			yellow	6	24 VDC, 15 mA	PT	17-020352	1	0.003
		Metal satin-chrome flush	green	6	24 VDC, 15 mA	PT	17-000351	1	0.003
			red	8	24 VDC, 15 mA	PT	17-000350	1	0.003
			yellow	6	24 VDC, 15 mA	PT	17-000352	1	0.003
		Metal satin-chrome interior	blue	26	24 VDC, 15 mA	PT	17-030357	1	0.003
			green	6	24 VDC, 15 mA	PT	17-030351	1	0.003
			green/yellow	30/15	24 VDC, 15 mA	PT	17-030356	1	0.003
			red	8	24 VDC, 15 mA	PT	17-030350	1	0.003
			white	410	24 VDC, 15 mA	PT	17-03035W	1	0.003
			yellow	6	24 VDC, 15 mA	PT	17-030352	1	0.003

Terminals: PT = Plug-in terminal

Technical drawing from page 13

Indicator 8 mm dia., LED 5 mm



	Front protection	Reflector	Light colour	Lumi. Intensity	Operating voltage/-current	Terminals	Ø 9.5 mm Typ-Nr.	Technical drawing	
Indicator 8 mm dia., LED 5 mm	IP 67	Metal black-chrome exterior	blue	60 mcd	24 VDC, 20 mA	PT	17-041357	2	0.005
			green	32 mcd	24 VDC, 20 mA	PT	17-041351	2	0.005
			red	80 mcd	24 VDC, 20 mA	PT	17-041350	2	0.005
			yellow	32 mcd	24 VDC, 20 mA	PT	17-041352	2	0.005
		Metal black-chrome interior	blue	60 mcd	24 VDC, 20 mA	PT	17-051357	2	0.005
			green	32 mcd	24 VDC, 20 mA	PT	17-051351	2	0.005
			red	80 mcd	24 VDC, 20 mA	PT	17-051350	2	0.005
			yellow	32 mcd	24 VDC, 20 mA	PT	17-051352	2	0.005
		Metal satin-chrome exterior	blue	57 mcd	24 VAC, 19 mA	PT	17-040367	2	0.005
				60 mcd	24 VDC, 20 mA	PT	17-040357	2	0.005
			green	30 mcd	24 VAC, 19 mA	PT	17-040361	2	0.005
				32 mcd	24 VDC, 20 mA	PT	17-040351	2	0.005
			green/yellow	20/15 mcd	24 VDC, 22 mA	PT	17-120356	3	0.005
				76 mcd	24 VAC, 19 mA	PT	17-040360	2	0.005
			red	80 mcd	24 VDC, 20 mA	PT	17-040350	2	0.005
				11/30 mcd	24 VDC, 22 mA	PT	17-120354	3	0.005
			red/green	10/11 mcd	24 VDC, 22 mA	PT	17-120355	3	0.005
				30 mcd	24 VAC, 19 mA	PT	17-040362	2	0.005
			red/yellow	32 mcd	24 VDC, 20 mA	PT	17-040352	2	0.005
				8 mcd	24 VDC, 20 mA	PT	17-010351	2	0.005
		Metal satin-chrome flat	red	13 mcd	24 VDC, 20 mA	PT	17-010350	2	0.005
			red/green/yellow	3/3/6 mcd	24 VDC, 15/15/30 mA	PT	17-100354	3	0.005
			yellow	8 mcd	24 VDC, 20 mA	PT	17-010352	2	0.005
				57 mcd	24 VAC, 19 mA	PT	17-050367	2	0.005
		Metal satin-chrome interior	blue	60 mcd	24 VDC, 20 mA	PT	17-050357	2	0.005
				32 mcd	24 VDC, 20 mA	PT	17-050351	2	0.005
			green	20/15 mcd	24 VDC, 22 mA	PT	17-130356	3	0.005
				76 mcd	24 VAC, 19 mA	PT	17-050360	2	0.005
			red	80 mcd	24 VDC, 20 mA	PT	17-050350	2	0.005
				11/30 mcd	24 VDC, 22 mA	PT	17-130354	3	0.005
			red/green	10/11 mcd	24 VDC, 22 mA	PT	17-130355	3	0.005
				30 mcd	24 VAC, 19 mA	PT	17-050362	2	0.005
			red/yellow	32 mcd	24 VDC, 20 mA	PT	17-050352	2	0.005
				600 mcd	24 VAC/DC, 9/17 mA	PT	17-080357	2	0.005
		Metal satin-chrome exterior	green	1300 mcd	24 VAC/DC, 9/17 mA	PT	17-080355	2	0.005
			red	1200 mcd	24 VAC/DC, 9/17 mA	PT	17-080350	2	0.005
			white	1000 mcd	24 VAC/DC, 9/17 mA	PT	17-08035W	2	0.005
			yellow	1100 mcd	24 VAC/DC, 9/17 mA	PT	17-080352	2	0.005
				600 mcd	24 VAC/DC, 9/17 mA	PT	17-090357	2	0.005
		Metal satin-chrome interior	green	1300 mcd	24 VAC/DC, 9/17 mA	PT	17-090355	2	0.005
			red	1200 mcd	24 VAC/DC, 9/17 mA	PT	17-090350	2	0.005
			white	1000 mcd	24 VAC/DC, 9/17 mA	PT	17-09035W	2	0.005
			yellow	1100 mcd	24 VAC/DC, 9/17 mA	PT	17-090352	2	0.005
Sunlight visibility Light reduction of around 25 % by use of AC	IP 67	Metal satin-chrome exterior	blue	600 mcd	24 VAC/DC, 9/17 mA	PT	17-080357	2	0.005
			green	1300 mcd	24 VAC/DC, 9/17 mA	PT	17-080355	2	0.005
			red	1200 mcd	24 VAC/DC, 9/17 mA	PT	17-080350	2	0.005
			white	1000 mcd	24 VAC/DC, 9/17 mA	PT	17-08035W	2	0.005
		Metal satin-chrome interior	yellow	1100 mcd	24 VAC/DC, 9/17 mA	PT	17-080352	2	0.005
			blue	600 mcd	24 VAC/DC, 9/17 mA	PT	17-090357	2	0.005
			green	1300 mcd	24 VAC/DC, 9/17 mA	PT	17-090355	2	0.005
			red	1200 mcd	24 VAC/DC, 9/17 mA	PT	17-090350	2	0.005

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	Front protection	Reflector	Light colour	Lumi. Intensity	Operating voltage/-current	Terminals	Ø 9.5 mm Typ-Nr.	Technical drawing	
with protection tube	IP 67	Metal satin-chrome exterior	green	5 mcd	230 VAC, 3 mA	PT	17-510431	9	0.006
			red	22 mcd	230 VAC, 3 mA	PT	17-510430	9	0.006
			yellow	7 mcd	230 VAC, 3 mA	PT	17-510432	9	0.006
		Metal satin-chrome interior	green	5 mcd	230 VAC, 3 mA	PT	17-500431	9	0.005
			red	22 mcd	230 VAC, 3 mA	PT	17-500430	9	0.005
			yellow	7 mcd	230 VAC, 3 mA	PT	17-500432	9	0.005

Terminals: PT = Plug-in terminal

Technical drawing from page 13

Indicator 8 mm dia., LED 5 mm, flush mounted

The mounting is performed by cementing the LED Indicator using a solvent free two element epoxy-based adhesive



	Front protection	Light colour	Lumi. Intensity	Operating voltage/-current	Terminals	Ø 8 mm Typ-Nr.	Technical drawing	
Indicator 8 mm dia., LED 5 mm, flush mounted	IP 40	green	10 mcd	24 VDC, 22 mA	PT	17-590351	6	0.002
		red	11 mcd	24 VDC, 22 mA	PT	17-590350	6	0.002
		yellow	9 mcd	24 VDC, 22 mA	PT	17-590352	6	0.002
Tri-colour LED	IP 40	red/green/yellow	3/3/6 mcd	24 VDC, 15/15/30 mA	PT	17-590354	6	0.002

Operation modes (tri-colour LED): Red, green or yellow. Both diodes produce yellow as a mixed colour.

Terminals: PT = Plug-in terminal

Technical drawing from page 13

Indicator 14 mm dia., LED 10 mm



	Front protection	Reflector	Lumi. Intensity	Light colour	Operating voltage/-current	Terminals	Ø 16 mm Typ-Nr.	Technical drawing	
Indicator 14 mm dia., LED 10 mm	IP 67	Metal black-chrome interior-exterior	150 mcd	red	24 VDC, 20 mA	PT	17-211350	4	0.014
			70 mcd	green	24 VDC, 20 mA	PT	17-211351	4	0.014
				yellow	24 VDC, 20 mA	PT	17-211352	4	0.014
		Metal satin-chrome interior-exterior	150 mcd	red	24 VDC, 20 mA	PT	17-210350	4	0.014
			70 mcd	green	24 VDC, 20 mA	PT	17-210351	4	0.014
				yellow	24 VDC, 20 mA	PT	17-210352	4	0.014
flashing	IP 67	Metal black-chrome interior-exterior	100 mcd	red	24 VDC, 38 ... 56 mA	PT	17-221350	4	0.014
			70 mcd	green	24 VDC, 38 ... 56 mA	PT	17-221351	4	0.014
				yellow	24 VDC, 38 ... 56 mA	PT	17-221352	4	0.014
		Metal satin-chrome interior-exterior	100 mcd	red	24 VDC, 38 ... 56 mA	PT	17-220350	4	0.014
			70 mcd	green	24 VDC, 38 ... 56 mA	PT	17-220351	4	0.014
				yellow	24 VDC, 38 ... 56 mA	PT	17-220352	4	0.014
Sunlight visibility Light reduction of around 25 % by use of AC	IP 67	Metal satin-chrome interior-exterior	1000 mcd	yellow	24 VAC/DC, 9/17 mA	PT	17-2A0352	4	0.014
			1250 mcd	green	24 VAC/DC, 9/17 mA	PT	17-2A0355	4	0.014
			1350 mcd	white	24 VAC/DC, 9/17 mA	PT	17-2A035W	4	0.014
			500 mcd	blue	24 VAC/DC, 9/17 mA	PT	17-2A0357	4	0.014
			700 mcd	red	24 VAC/DC, 9/17 mA	PT	17-2A0350	4	0.014
Tri-colour LED	IP 67	Metal satin-chrome interior-exterior	90/60/150 mcd	red/green/yellow	24 VDC, 20/20/20 mA	PT	17-240354	4	0.014
with protection tube	IP 67	Metal black-chrome interior-exterior	11 mcd	green	230 VAC, 3 mA	PT	17-351231	5	0.015
			18 mcd	red	230 VAC, 3 mA	PT	17-351230	5	0.015
			8 mcd	yellow	230 VAC, 3 mA	PT	17-351233	5	0.015
		Metal satin-chrome interior-exterior	11 mcd	green	230 VAC, 3 mA	PT	17-350231	5	0.015
			18 mcd	red	230 VAC, 3 mA	PT	17-350230	5	0.015
			8 mcd	yellow	230 VAC, 3 mA	PT	17-350233	5	0.015

Terminals: PT = Plug-in terminal
Technical drawing from page 13

Indicator 16 mm dia., LED 10 mm



	Front protection	Lense	Reflector	Light colour	Lumi. Intensity	Operating voltage/-current	Terminals	Ø 18.3 mm Typ-Nr.	Technical drawing	
Indicator 16 mm dia., LED 10 mm	IP 67	conical	Plastic black	blue	860 mcd	24 VDC, 14 mA	PT	17-391357Z	10	0.007
						28 VDC, 14 mA	PT	17-391457Z	10	0.007
				green	820 mcd	24 VDC, 15 mA	PT	17-391351Z	10	0.007
						28 VDC, 15 mA	PT	17-391451Z	10	0.007
				red	1470 mcd	24 VDC, 16 mA	PT	17-391350Z	10	0.007
						28 VDC, 16 mA	PT	17-391450Z	10	0.007
				ultra-green	5030 mcd	24 VDC, 14 mA	PT	17-391355Z	10	0.007
						28 VDC, 14 mA	PT	17-391455Z	10	0.007
				white	2760 mcd	24 VDC, 14 mA	PT	17-39135WZ	10	0.007
						28 VDC, 14 mA	PT	17-39145WZ	10	0.007
				yellow	1640 mcd	24 VDC, 16 mA	PT	17-391352Z	10	0.007
						28 VDC, 16 mA	PT	17-391452Z	10	0.007
		convex	Plastic black	blue	860 mcd	24 VDC, 14 mA	PT	17-371357Z	10	0.007
						28 VDC, 14 mA	PT	17-371457Z	10	0.007
				green	980 mcd	24 VDC, 15 mA	PT	17-371351Z	10	0.007
						28 VDC, 15 mA	PT	17-371451Z	10	0.007
				red	1200 mcd	24 VDC, 16 mA	PT	17-371350Z	10	0.007
						28 VDC, 16 mA	PT	17-371450Z	10	0.007
				ultra-green	5440 mcd	24 VDC, 14 mA	PT	17-371355Z	10	0.007
						28 VDC, 14 mA	PT	17-371455Z	10	0.007
				white	2460 mcd	24 VDC, 14 mA	PT	17-37135WZ	10	0.007
						28 VDC, 14 mA	PT	17-37145WZ	10	0.007
				yellow	1650 mcd	24 VDC, 16 mA	PT	17-371352Z	10	0.007
						28 VDC, 16 mA	PT	17-371452Z	10	0.007
		flush	Plastic black	blue	740 mcd	24 VDC, 14 mA	PT	17-381357Z	10	0.007
						28 VDC, 14 mA	PT	17-381457Z	10	0.007
				green	870 mcd	24 VDC, 15 mA	PT	17-381351Z	10	0.007
						28 VDC, 15 mA	PT	17-381451Z	10	0.007
				red	870 mcd	24 VDC, 16 mA	PT	17-381350Z	10	0.007
						28 VDC, 16 mA	PT	17-381450Z	10	0.007
				ultra-green	4130 mcd	24 VDC, 14 mA	PT	17-381355Z	10	0.007
						28 VDC, 14 mA	PT	17-381455Z	10	0.007
				white	1290 mcd	24 VDC, 14 mA	PT	17-38135WZ	10	0.007
						28 VDC, 14 mA	PT	17-38145WZ	10	0.007
				yellow	1250 mcd	24 VDC, 16 mA	PT	17-381352Z	10	0.007
						28 VDC, 16 mA	PT	17-381452Z	10	0.007

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	Front protection	Lense	Reflector	Light colour	Lumi. Intensity	Operating voltage/-current	Terminals	Ø 18.3 mm Typ-Nr.	Technical drawing	
with protection tube	IP 67	conical	Plastic black	blue	200 mcd	230 VAC, 3 mA	PT	17-421237Z	11	0.008
				green	120 mcd	230 VAC, 3 mA	PT	17-421231Z	11	0.008
				red	240 mcd	230 VAC, 3 mA	PT	17-421230Z	11	0.008
				ultra-green	1280 mcd	230 VAC, 3 mA	PT	17-421235Z	11	0.008
				white	500 mcd	230 VAC, 3 mA	PT	17-42123WZ	11	0.008
				yellow	190 mcd	230 VAC, 3 mA	PT	17-421232Z	11	0.008
		convex	Plastic black	blue	200 mcd	230 VAC, 3 mA	PT	17-401237Z	11	0.008
				green	150 mcd	230 VAC, 3 mA	PT	17-401231Z	11	0.008
				red	240 mcd	230 VAC, 3 mA	PT	17-401230Z	11	0.008
				ultra-green	1560 mcd	230 VAC, 3 mA	PT	17-401235Z	11	0.008
				white	350 mcd	230 VAC, 3 mA	PT	17-40123WZ	11	0.008
				yellow	210 mcd	230 VAC, 3 mA	PT	17-401232Z	11	0.008
	flush	Plastic black	Plastic black	blue	150 mcd	230 VAC, 3 mA	PT	17-411237Z	11	0.008
				green	120 mcd	230 VAC, 3 mA	PT	17-411231Z	11	0.008
				red	140 mcd	230 VAC, 3 mA	PT	17-411230Z	11	0.008
				ultra-green	970 mcd	230 VAC, 3 mA	PT	17-411235Z	11	0.008
				white	280 mcd	230 VAC, 3 mA	PT	17-41123WZ	11	0.008
				yellow	130 mcd	230 VAC, 3 mA	PT	17-411232Z	11	0.008

Terminals: PT = Plug-in terminal

Technical drawing from page 13

Indicator 22 mm dia., LED 15 mm



	Front protection	Reflector	Light colour	Lumi. Intensity	Operating voltage/-current	Terminals	Ø 25 mm Typ-Nr.	Technical drawing	
Indicator 22 mm dia., LED 15 mm	IP 67	Metal black-chrome interior-exterior	green	120 mcd	24 VDC, 19 mA	PT	17-531351	7	0.042
			red	160 mcd	24 VDC, 19 mA	PT	17-531350	7	0.042
			red/yellow/green	51/92/120 mcd	24 VDC, 26/24/50 mA	PT	17-541354	7	0.042
			yellow	350 mcd	24 VDC, 19 mA	PT	17-531352	7	0.042
		Metal satin-chrome interior-exterior	green	120 mcd	24 VDC, 19 mA	PT	17-530351	7	0.042
			red	160 mcd	24 VDC, 19 mA	PT	17-530350	7	0.042
			red/yellow/green	51/92/120 mcd	24 VDC, 26/24/50 mA	PT	17-540354	7	0.042
			yellow	350 mcd	24 VDC, 19 mA	PT	17-530352	7	0.042
with protection tube	IP 67	Metal black-chrome interior-exterior	green	20 mcd	230 VAC, 4 mA	PT	17-571231	8	0.044
			red	28 mcd	230 VAC, 4 mA	PT	17-571230	8	0.044
			yellow	48 mcd	230 VAC, 4 mA	PT	17-571232	8	0.044
		Metal satin-chrome interior-exterior	green	20 mcd	230 VAC, 4 mA	PT	17-570231	8	0.044
			red	28 mcd	230 VAC, 4 mA	PT	17-570230	8	0.044
			yellow	48 mcd	230 VAC, 4 mA	PT	17-570232	8	0.044

Terminals: PT = Plug-in terminal

Technical drawing from page 13

Backside

Flat receptacle

	Typ-Nr.	
Flat receptacle 2.0 x 0.5 mm	31-945	0.001
2.8 x 0.8 mm	84-9420	0.001



Insulation sleeve

	Typ-Nr.	
Insulation sleeve for Flat receptacle 31-945	31-928	0.001
for Flat receptacles 84-9420	31-929	0.001



Assembling

Fixing nut long

	Typ-Nr.	
Fixing nut long Ø 9/M8 x 13 mm	19-991	0.001



Mounting tool

	Typ-Nr.	
Mounting tool for Fixing nut long 19-991	19-905	0.011
for Indicator 16 mm dia.	01-907	0.020



Technical Data

Material

Actuator

Reflector: Brass satin chrome/black chrome

for indicator 16 mm dia. in black plastic

The plastic (polycarbonate) is limited resistant against chemicals

Mechanical characteristics

Terminals

Plug-in terminal 2.0 x 0.5 mm or 2.8 x 0.8 mm

The indicators with tab-connection are not qualified for soldering

Tightening torque

20 Ncm

Electrical characteristics

Polarity

Anode(+) Brass plug-in connector

Cathode(-) Brass tinned plug-in connector

Voltage tolerance

+10 %

Optical characteristics

Wave length

red 660 nm

super red 625 nm

hyper red 660 nm

orange 625 nm / for execution 230 V: 610 nm

green 565 nm

yellow/green 570 / for execution 230 V: 575 nm

yellow 590 nm

blue 475 nm

red/green 660/565 nm

red/yellow 660/ 590 nm

Environmental conditions

Storage temperature

-25 °C ... +80 °C

Service temperature

-20 °C ... +60 °C

Protection degree

front IP 40

IP 67 as per DIN EN 60529 - Gap between LED and reflector and gap between reflector and frontplate sealed to IP 67 when using the supplied gasket

Approvals

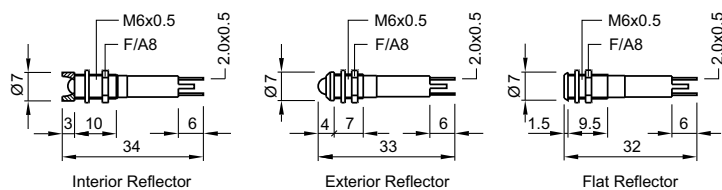
Approbations

UL

VDE

Technical drawing

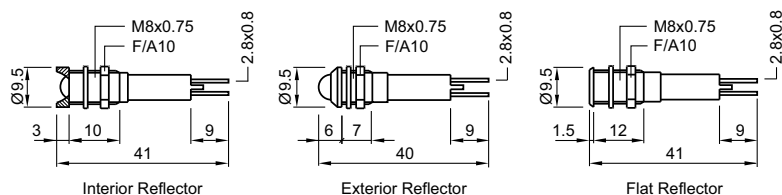
1 Indicator 6 mm dia., LED 3 mm page 5



Mounting hole: 6 mm dia. +0.2/0 mm

Connectors: Brass terminal = Anode / Brass tinned terminal = Cathode

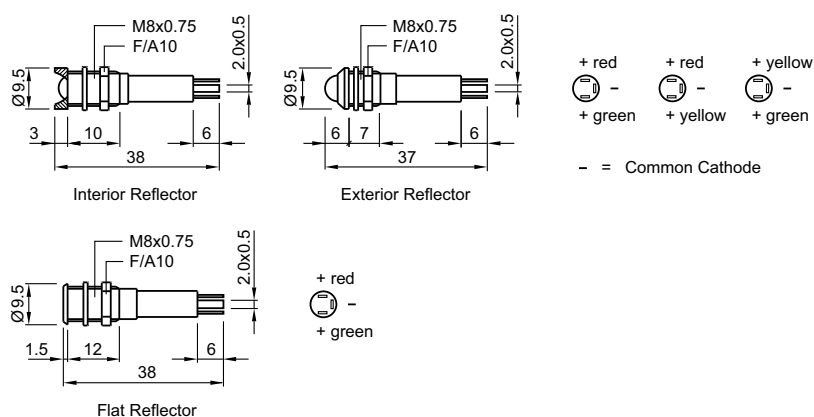
2 Indicator 8 mm dia., LED 5 mm page 6



Mounting hole: 8 mm dia. +0.2/0 mm

Connectors: Brass terminal = Anode / Brass tinned terminal = Cathode

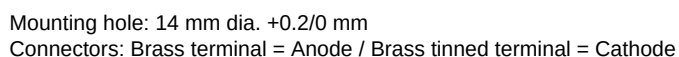
3 Indicator 8 mm dia., LED 5 mm page 6



Mounting hole: 8 mm dia. +0.2/0 mm

Connectors: Brass terminal = Anode / Brass tinned terminal = Cathode

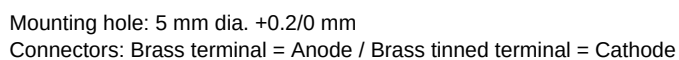
Technical drawing of a Tee (1/2" NPT x 1" NPT) with a 1/2" NPT Female Port. The drawing shows a side view of the tee with dimensions: overall length 41 ± 0.2, main body diameter Ø16, and port diameter 2.8x0.8. The port is labeled M14x1 F/A17. Other dimensions include 2.5, 5, 13.5, and 9.



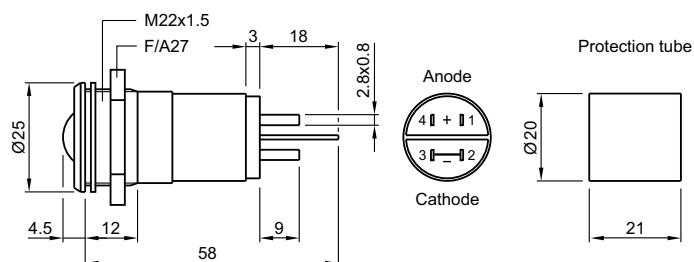
Technical drawing of the sensor assembly. The drawing shows a side view of the sensor with the following dimensions and components:

- Overall length: 41 ± 2
- Front flange diameter: $\varnothing 16$
- Front flange thickness: 2.5
- Front flange inner diameter: 5
- Threaded section length: 13.5
- Thread specification: M14x1 F/A17
- Threaded section outer diameter: 3
- Threaded section inner diameter: 2.8×0.8
- Protective tube length: 9
- Protective tube outer diameter: $\varnothing 12$
- Protective tube inner diameter: 21

6 Indicator 8 mm dia., LED 5 mm, flush mounted page 7

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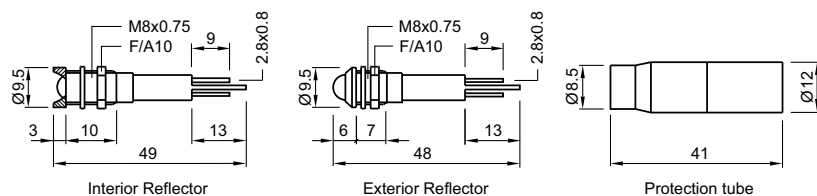
8 Indicator 22 mm dia., LED 15 mm page 10



Mounting hole: 22 mm dia. +0.5/0 mm

Connectors: Brass terminal = Anode / Brass tinned terminal = Cathode

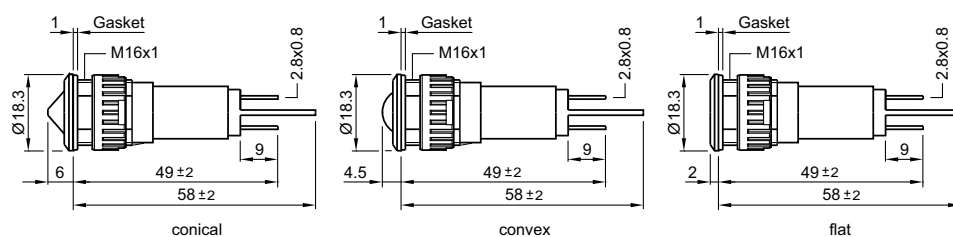
9 Indicator 8 mm dia., LED 5 mm page 6



Mounting hole: 8 mm dia. +0.2/0 mm

Connectors: Brass terminal = Anode / Brass tinned terminal = Cathode

10 Indicator 16 mm dia., LED 10 mm page 9

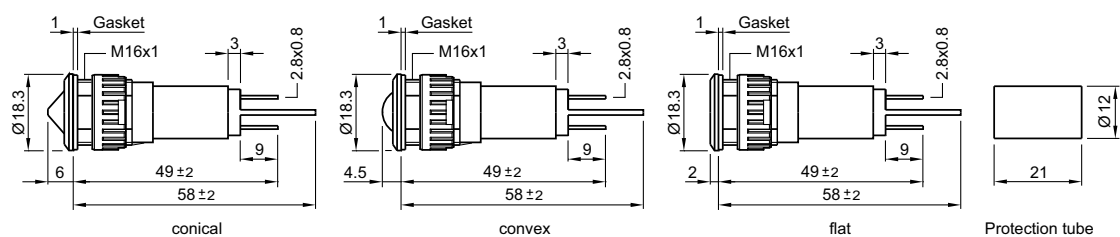


Mounting hole: 16 mm dia. +0.4/0 mm

Connectors: Brass terminal = Anode / Brass tinned terminal = Cathode

Maximum panel thickness 6 mm

11 Indicator 16 mm dia., LED 10 mm page 9



Mounting hole: 16 mm dia. +0.4/0 mm

Connectors: Brass terminal = Anode / Brass tinned terminal = Cathode

Maximum panel thickness 6 mm

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