

## EAO Product Information

Series 17



## Index

### Series 17

	<b>Description</b>	<b>Page 197</b>
	<b>Product Assembly</b>	<b>Page 198</b>
	<b>Product Range</b>	
	- pushbuttons for standard mounting	<b>Page 199</b>
	- accessories / spare parts	<b>Page 206</b>
	<b>Technical Data</b>	<b>Page 207</b>
	<b>Technical Drawing</b>	<b>Page 208</b>
	<b>Circuit Drawing</b>	<b>Page 210</b>

## General Notes

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

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.

The different front versions, such as:

- internal/external reflector
- flat front
- chromium-plated, silver or black
- optical lens

allow them to be used in most frequent applications.

*All dimensions in mm.*

*We reserve the right to modify technical data.*

## indicator

- 1 indicator
- 2 fixing nut



## indicator with 3 mm LED



	type of reflector	colour of reflector	colour of LED	operation voltage	part no.	circuit drawing		technical drawing	
indicator with 3 mm LED	external reflector	chromium-plated silver	yellow	24 VDC	<b>17-020352</b>	1	1	0,003	
			green	24 VDC	<b>17-020351</b>	1	1	0,003	
			red	24 VDC	<b>17-020350</b>	1	1	0,003	
	internal reflector	chromium-plated silver	blue	24 VDC	<b>17-030357</b>	1	1	0,003	
			yellow	24 VDC	<b>17-030352</b>	1	1	0,003	
			green	24 VDC	<b>17-030351</b>	1	1	0,003	
			red	24 VDC	<b>17-030350</b>	1	1	0,003	
	flat	chromium-plated silver	yellow	24 VDC	<b>17-000352</b>	1	1	0,003	
			green	24 VDC	<b>17-000351</b>	1	1	0,003	
			red	24 VDC	<b>17-000350</b>	1	1	0,003	

circuit drawings from page 210, technical drawings from page 208

## indicator with 5 mm LED



	type of reflector	colour of reflector	colour of LED	operation voltage	part no.	circuit drawing	technical drawing	
indicator with 5 mm LED	external reflector	chromium-plated black	yellow	24 VDC	<b>17-041352</b>	1	2	0,005
			green	24 VDC	<b>17-041351</b>	1	2	0,005
			red	24 VDC	<b>17-041350</b>	1	2	0,005
		chromium-plated silver	blue	24 VDC	<b>17-040357</b>	1	2	0,005
			yellow		<b>17-080357</b>	1	2	0,005
				24 VAC	<b>17-040362</b>	1	2	0,005
				24 VDC	<b>17-040352</b>	1	2	0,005
				230 VAC	<b>17-080352</b>	1	2	0,005
			yellow/green		<b>17-510432</b>	1	3	0,005
				24 VDC	<b>17-120356</b>	1	4	0,005
				24 VAC	<b>17-040361</b>	1	2	0,005
			green		<b>17-040351</b>	1	2	0,005
				24 VDC	<b>17-080355</b>	1	2	0,005
				230 VAC	<b>17-510431</b>	1	3	0,005
			red	24 VAC	<b>17-040360</b>	1	2	0,005
				24 VDC	<b>17-040350</b>	1	2	0,005
					<b>17-080350</b>	1	2	0,005
				230 VAC	<b>17-510430</b>	1	3	0,005
			red/yellow	24 VDC	<b>17-120355</b>	1	4	0,005
			red/green	24 VDC	<b>17-120354</b>	1	4	0,005
			white	24 VDC	<b>17-08035W</b>	1	2	0,005

Continued on next page

	type of reflector	colour of reflector	colour of LED	operation voltage	part no.	circuit drawing	technical drawing	
<b>indicator with 5 mm LED</b>	internal reflector	chromium-plated black	yellow	24 VDC	<b>17-051352</b>	1	2	0,005
			green	24 VDC	<b>17-051351</b>	1	2	0,005
			red	24 VDC	<b>17-051350</b>	1	2	0,005
		chromium-plated silver	blue	24 VDC	<b>17-050357</b>	1	2	0,005
					<b>17-090357</b>	1	2	0,005
			yellow	24 VAC	<b>17-050362</b>	1	2	0,005
				24 VDC	<b>17-050352</b>	1	2	0,005
					<b>17-090352</b>	1	2	0,005
				230 VAC	<b>17-500432</b>	1	3	0,005
			yellow/green	24 VDC	<b>17-130356</b>	1	4	0,005
			green	24 VAC	<b>17-050361</b>	1	2	0,005
				24 VDC	<b>17-050351</b>	1	2	0,005
					<b>17-090355</b>	1	2	0,005
				230 VAC	<b>17-500431</b>	1	3	0,005
			red	24 VAC	<b>17-050360</b>	1	2	0,005
				24 VDC	<b>17-050350</b>	1	2	0,005
					<b>17-090350</b>	1	2	0,005
				230 VAC	<b>17-500430</b>	1	3	0,005
			red/yellow	24 VDC	<b>17-130355</b>	1	4	0,005
			red/green	24 VDC	<b>17-130354</b>	1	4	0,005
			white	24 VDC	<b>17-09035W</b>	1	2	0,005
	internal reflector, flat	chromium-plated silver	yellow	24 VDC	<b>17-010352</b>	1	2	0,005
			green	24 VDC	<b>17-010351</b>	1	2	0,005
			red	24 VDC	<b>17-010350</b>	1	2	0,005
			red/green	24 VDC	<b>17-100354</b>	1	4	0,005

circuit drawings from page 210, technical drawings from page 208

## indicator with 5 mm LED, flush mounted



	colour of LED	operation voltage	part no.	circuit drawing	technical drawing	
<b>indicator with 5 mm LED, flush mounted</b>	yellow	24 VDC	<b>17-590352</b>	1	5	0,005
	green	24 VDC	<b>17-590351</b>	1	5	0,005
	red	24 VDC	<b>17-590350</b>	1	5	0,005
	red/yellow/green	24 VDC	<b>17-590354</b>	2	5	0,005

circuit drawings from page 210, technical drawings from page 208

indicator with 10 mm LED IP 40



	type of reflector	colour of reflector	colour of LED	operation voltage	part no.	circuit drawing	technical drawing	e
indicator with 10 mm LED IP 40	internal/external re- flector	chromium-plated black	yellow	24 VDC	<b>17-211352</b>	1	6	0,014
				230 VAC	<b>17-221352</b>	1	6	0,014
			green	24 VDC	<b>17-351232</b>	1	8	0,014
				230 VAC	<b>17-221351</b>	1	6	0,014
			red	24 VDC	<b>17-221351</b>	1	6	0,014
				230 VAC	<b>17-351231</b>	1	8	0,014
		chromium-plated sil- ver	blue	24 VDC	<b>17-211350</b>	1	6	0,014
				230 VAC	<b>17-221350</b>	1	6	0,014
			yellow	24 VDC	<b>17-351230</b>	1	8	0,014
				230 VAC	<b>17-2A0357</b>	1	9	0,014
			green	24 VDC	<b>17-210352</b>	1	6	0,014
				230 VAC	<b>17-220352</b>	1	6	0,014
			red	24 VDC	<b>17-2A0352</b>	1	9	0,014
				230 VAC	<b>17-350232</b>	1	8	0,014
			red/green, yellow, mi- xed	24 VDC	<b>17-210351</b>	1	6	0,014
				230 VAC	<b>17-220351</b>	1	6	0,014
			white	24 VDC	<b>17-2A0355</b>	1	9	0,014
				230 VAC	<b>17-350231</b>	1	8	0,014
			red	24 VDC	<b>17-210350</b>	1	6	0,014
				230 VAC	<b>17-220350</b>	1	6	0,014
			red/green, yellow, mi- xed	24 VDC	<b>17-2A0350</b>	1	9	0,014
				230 VAC	<b>17-210350</b>	1	6	0,014
			white	24 VDC	<b>17-350230</b>	1	8	0,014
				230 VAC	<b>17-240354</b>	2	7	0,014
			white	24 VDC	<b>17-2A035W</b>	1	9	0,014
				230 VAC				

circuit drawings from page 210, technical drawings from page 208

## indicator with 10 mm LED IP 67



	shape of lens	colour of LED	operation voltage	part no.	circuit drawing	technical drawing	
indicator with 10 mm LED IP 67	flat	U-green	24 VDC	<b>17-381355Z</b>	1	10	0,007
			28 VDC	<b>17-381455Z</b>	1	10	0,007
			230 VAC	<b>17-411235Z</b>	1	11	0,007
		blue	24 VDC	<b>17-381357Z</b>	1	10	0,007
			28 VDC	<b>17-381457Z</b>	1	10	0,007
			230 VAC	<b>17-411237Z</b>	1	11	0,007
		yellow	24 VDC	<b>17-381352Z</b>	1	10	0,007
			28 VDC	<b>17-381452Z</b>	1	10	0,007
			230 VAC	<b>17-411232Z</b>	1	11	0,007
		green	24 VDC	<b>17-381351Z</b>	1	10	0,007
			28 VDC	<b>17-381451Z</b>	1	10	0,007
			230 VAC	<b>17-411231Z</b>	1	11	0,007
		red	24 VDC	<b>17-381350Z</b>	1	10	0,007
			28 VDC	<b>17-381450Z</b>	1	10	0,007
			230 VAC	<b>17-411230Z</b>	1	11	0,007
		white	24 VDC	<b>17-38135WZ</b>	1	10	0,007
			28 VDC	<b>17-38145WZ</b>	1	10	0,007
			230 VAC	<b>17-41123WZ</b>	1	11	0,007

Continued on next page

	shape of lens	colour of LED	operation voltage	part no.	circuit drawing		technical drawing	
indicator with 10 mm LED IP 67	conical	U-green	24 VDC	<b>17-391355Z</b>	1	10	0,007	
			28 VDC	<b>17-391455Z</b>	1	10	0,007	
			230 VAC	<b>17-421235Z</b>	1	11	0,007	
		blue	24 VDC	<b>17-391357Z</b>	1	10	0,007	
			28 VDC	<b>17-391457Z</b>	1	10	0,007	
			230 VAC	<b>17-421237Z</b>	1	11	0,007	
		yellow	24 VDC	<b>17-391352Z</b>	1	10	0,007	
			28 VDC	<b>17-391452Z</b>	1	10	0,007	
			230 VAC	<b>17-421232Z</b>	1	11	0,007	
		green	24 VDC	<b>17-391351Z</b>	1	10	0,007	
			28 VDC	<b>17-391451Z</b>	1	10	0,007	
			230 VAC	<b>17-421231Z</b>	1	11	0,007	
		red	24 VDC	<b>17-391350Z</b>	1	10	0,007	
			28 VDC	<b>17-391450Z</b>	1	10	0,007	
			230 VAC	<b>17-421230Z</b>	1	11	0,007	
		white	24 VDC	<b>17-39135WZ</b>	1	10	0,007	
			28 VDC	<b>17-39145WZ</b>	1	10	0,007	
			230 VAC	<b>17-42123WZ</b>	1	11	0,007	
	convex	U-green	24 VDC	<b>17-371355Z</b>	1	10	0,007	
			28 VDC	<b>17-371455Z</b>	1	10	0,007	
			230 VAC	<b>17-401235Z</b>	1	11	0,007	
		blue	24 VDC	<b>17-371357Z</b>	1	10	0,007	
			28 VDC	<b>17-371457Z</b>	1	10	0,007	
			230 VAC	<b>17-401237Z</b>	1	11	0,007	
		yellow	24 VDC	<b>17-371352Z</b>	1	10	0,007	
			28 VDC	<b>17-371452Z</b>	1	10	0,007	
			230 VAC	<b>17-401232Z</b>	1	11	0,007	
		green	24 VDC	<b>17-371351Z</b>	1	10	0,007	
			28 VDC	<b>17-371451Z</b>	1	10	0,007	
			230 VAC	<b>17-401231Z</b>	1	11	0,007	
		red	24 VDC	<b>17-371350Z</b>	1	10	0,007	
			28 VDC	<b>17-371450Z</b>	1	10	0,007	
			230 VAC	<b>17-401230Z</b>	1	11	0,007	
		white	24 VDC	<b>17-37135WZ</b>	1	10	0,007	
			28 VDC	<b>17-37145WZ</b>	1	10	0,007	
			230 VAC	<b>17-40123WZ</b>	1	11	0,007	

circuit drawings from page 210, technical drawings from page 208

## indicator Jumbo



	type of reflector	colour of reflector	colour of LED	operation voltage	part no.	circuit drawing	technical drawing	
indicator Jumbo	internal/external reflector	black matt	yellow	24 VDC	<b>17-531352</b>	1	12	0,045
				230 VAC	<b>17-571232</b>	1	12	0,045
			green	24 VDC	<b>17-531351</b>	1	12	0,045
				230 VAC	<b>17-5712301</b>	1	12	0,045
			red	24 VDC	<b>17-531350</b>	1	12	0,045
				230 VAC	<b>17-571230</b>	1	12	0,045
			red/yellow/green	24 VDC	<b>17-541354</b>	2	12	0,045
		chromium-plated silver	yellow	24 VDC	<b>17-530352</b>	1	12	0,045
				230 VAC	<b>17-570232</b>	1	12	0,045
			green	24 VDC	<b>17-530351</b>	1	12	0,045
				230 VAC	<b>17-570231</b>	1	12	0,045
			red	24 VDC	<b>17-530350</b>	1	12	0,045
				230 VAC	<b>17-570230</b>	1	12	0,045
			red/yellow/green	24 VDC	<b>17-540354</b>	2	12	0,045

circuit drawings from page 210, technical drawings from page 208

# accessories


## at back

### cable shoe

	part no.	
<b>cable shoe</b> 2.8 x 0.8 mm, wire cross-section 0.5-1.5 mm²	<b>84-9420</b>	0,001



### insulation socket


	part no.	
<b>insulation socket</b> for connector 31-946	<b>31-929</b>	0,001



## assembling


### fixing nut, long

for indicator with 5 mm LED

	for winding for mounting	part no.	
<b>fixing nut, long</b>	8 mm	<b>19-991</b>	0,001



### mounting tool

	for winding for mounting	part no.	
<b>mounting tool</b>	8 mm	<b>19-905.0</b>	0,011
	16 mm	<b>01-907</b>	0,020



## technical Data

### material

#### actuator case

winding: brass chromimum-plated/black chromium-plated  
for 16 mm winding: plastic

plastic part: polycarbonate

### mechanical characteristics

#### connection method

soldering/plug-in-terminal 2.0 x 0.5 mm or 2.8 x 0.8 mm

#### starting torque

20 Ncm

#### fastening

metal or plastic fixing nut

#### service temperature

-55°C bis + 70°C

#### storage temperature

-55°C to + 100°C  
(as per DIN IEC 68-)

#### degree of protection

front IP 40 or IP 67 (16 mm winding)

### electrical characteristics

#### polarity

anode(+) plug-in contact in brass  
cathode(-) plug-in contact tinned  
voltage tolerance  $\pm 10\%$

### optical characteristics

#### brightness (mcd)

on request depending on type

#### 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  
white  
red/green 660/565 nm  
red/yellow 660/ 590 nm

### approvals

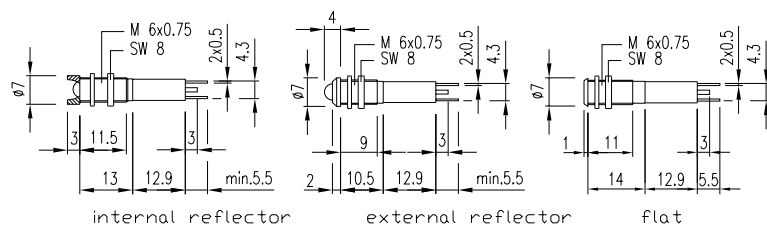
#### approvals

- VDE
- UR
- CE (declaration of conformity)

## technical drawings

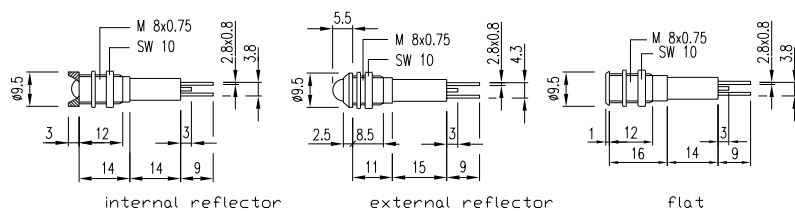
### 1 indicator with 3 mm LED

page 199



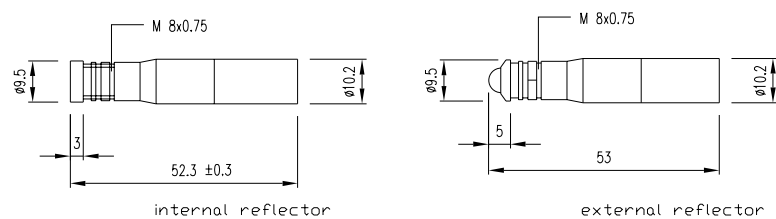
### 2 indicator with 5 mm LED

page 200



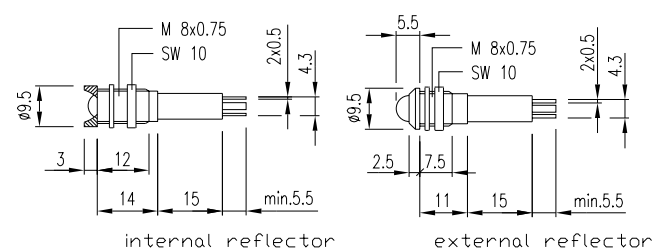
### 3 indicator with 5 mm LED

page 200



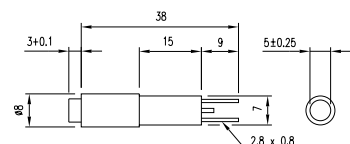
### 4 indicator with 5 mm LED

page 200

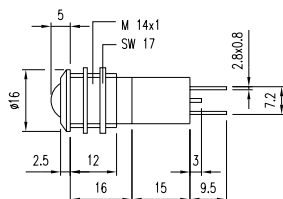


### 5 indicator with 5 mm LED, flush mounted

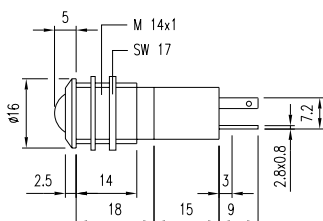
page 201



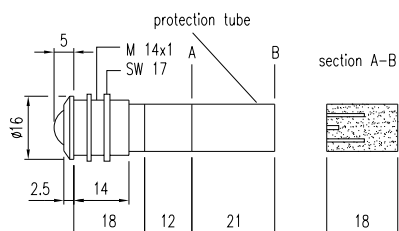
**6 indicator with 10 mm LED IP 40**  
page 202



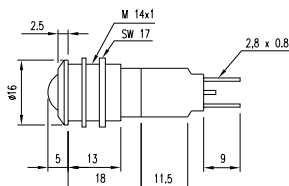
**7 indicator with 10 mm LED IP 40**  
page 202



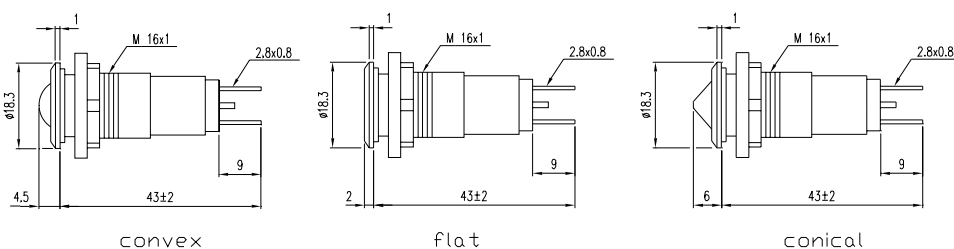
**8 indicator with 10 mm LED IP 40**  
page 202



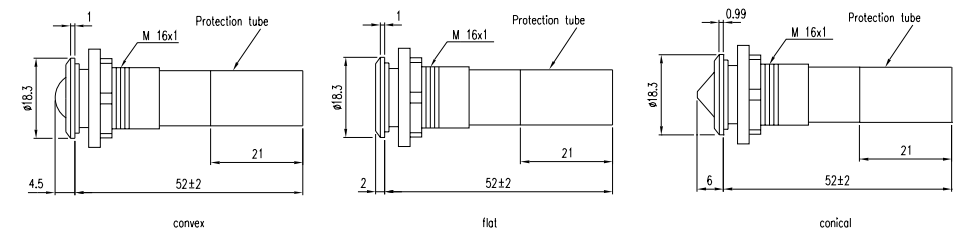
**9 indicator with 10 mm LED IP 40**  
page 202



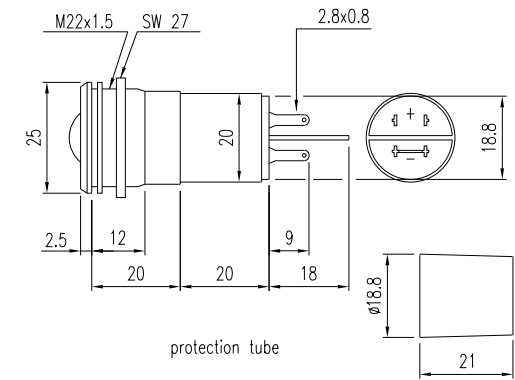
**10 indicator with 10 mm LED IP 67**  
page 203



11 indicator with 10 mm LED IP 67  
page 203



12 indicator Jumbo  
page 205

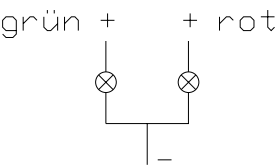


circuit drawings

1 indicator with 3 mm LED, indicator with 5 mm LED, indicator with 5 mm LED, flush mounted, indicator with 10 mm LED IP 40, indicator with 10 mm LED IP 67, indicator Jumbo  
page 199, 200, 201, 202, 203, 205



2 indicator with 5 mm LED, flush mounted, indicator with 10 mm LED IP 40, indicator Jumbo  
page 201, 202, 205



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