

1) Display and control panel, 2) Cover, 3) DIN rail



### Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Signal amplifier
Series	SA-OH
Style	Square Straight connection

### Display/Operation

Adjuster	Slide switch 4 positions or 3 positions
Display	LED green: Power Digital display Switching state - LED yellow
Setting	Light-on/dark-on Time function on/off Delay time Teach mode Aut/Hys/Int/Pot

### Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Short-circuit protection	yes

### Electrical data

No-load current $I_o$ max. at $U_e$	45 mA
Operating voltage $U_b$	10...30 VDC
Rated operating current $I_e$	200 mA
Rated operating voltage $U_e$ DC	24 V
Switching frequency	3000 Hz
Turn-off delay $t_{off}$ max.	0.17 ms
Turn-on delay $t_{on}$ max.	0.17 ms
Voltage drop $U_d$ max. at $I_e$	2 V

### Environmental conditions

Ambient temperature	-10...55 °C
IP rating	IP54

Interface

Duration of time function	T = 50 ms
Supplementary output	Error output PNP
Switch function, supplementary output	Normally open (NO)
Switching output	PNP normally open/normally closed (NO/NC)
Time function	switch-off delay Turn-on delay

Material

Housing material	ABS PC
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Mechanical data

Dimension	15 x 36 x 61 mm
Mounting part	Screw M3 DIN rail 35 mm

Optical features

Principle of optical operation	depends on sensor head
Switching function, optical	Light/dark switching

Range/Distance

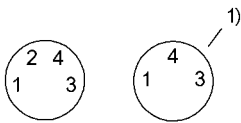
Range	depends on sensor head
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Remarks

DIN rail included, order other accessories separately.  
For additional information, refer to user's guide.  
The sensor is functional again after the overload has been eliminated.  
The range of sensors (BOH) is reduced with these amplifiers. Diffuse and through-beam sensors typically achieve a range of 33%.

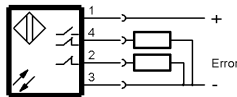
Connector Drawings

AC 24V

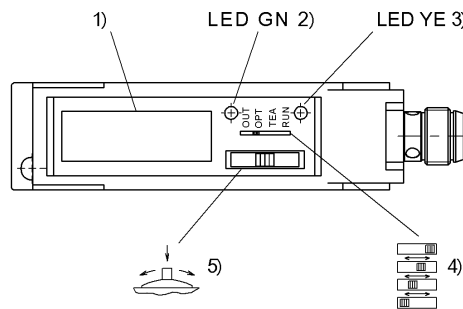


1) Sensor connection

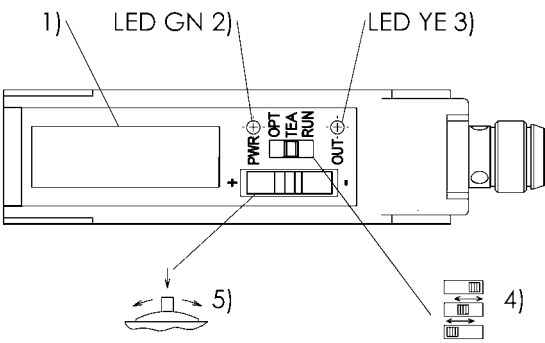
Wiring Diagrams



Help Views



- 1) Display
- 2) Stability
- 3) Output function
- 4) Slide switch operating modes
- 5) Jog-Switch



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Opto Symbols

