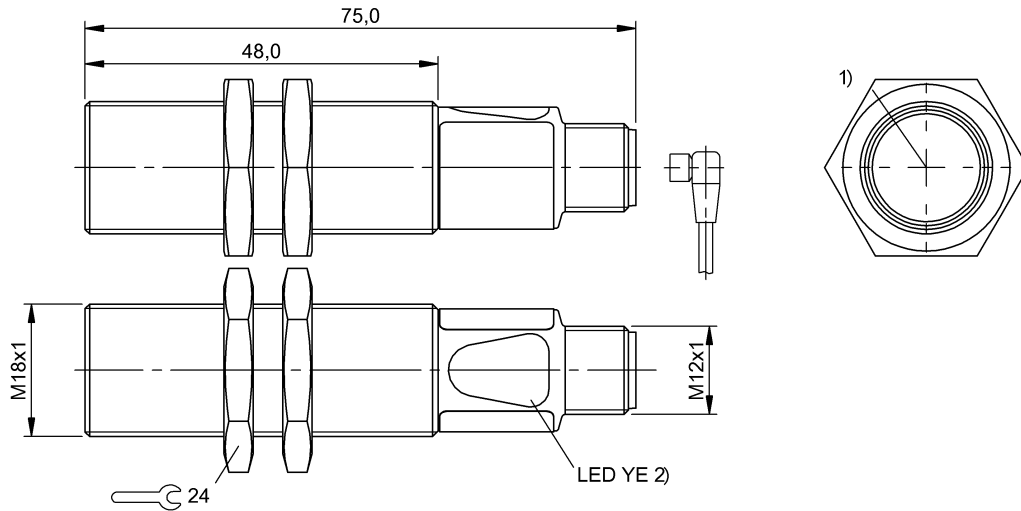


## BOS 18M-PS-IE23-S4 BOS01HP



1) Optical axis 2) Light reception



### Display/Operation

Adjuster no

### Electrical connection

Connection M12x1-Connector, 4-pole, A-coded  
Contact, surface protection Gold plated  
Polarity reversal protected yes  
Short-circuit protection yes

### Electrical data

Load capacitance max. at  $U_e$  0.1  $\mu$ F  
No-load current  $I_o$  max. at  $U_e$  20 mA  
Operating voltage  $U_b$  10...30 VDC  
Pollution degree 3  
Protected against miswiring yes  
Rated insulation voltage  $U_i$  75 V DC  
Rated operating current  $I_e$  DC 100 mA  
Rated operating voltage  $U_e$  DC 24 V  
Reference emitter BOS 18M-X-IS23-S4  
Switching frequency 400 Hz  
Turn-off delay  $t_{off}$  max. 1.25 ms  
Turn-on delay  $t_{on}$  max. 1.25 ms  
Utilization category DC -13  
Voltage drop  $U_d$  max. at  $I_e$  2.5 V

### Environmental conditions

Ambient temperature -5...55 °C  
Protection class II  
Protection type IEC 60529 IP67

### General data

Approval/Conformity CE  
cULus  
Basic standard IEC 60947-5-2  
Series 18M  
Style Cylinder  
Straight optics  
Trademark Global

### Material

Housing material Brass  
Material sensing surface Glass  
Surface protection nickel plates

### Mechanical data

Dimension  $\varnothing$  18 x 75 mm  
Fastening detail Nut M18x1  
Tightening torque max. 15 Nm  
30 Nm

### Optical data

Ambient light max. 5000 Lux  
Light type Infrared  
Principle of optical operation Through-beam sensor (receiver)

### Output/Interface

Switching output PNP Normally open (NO)

## BOS 18M-PS-IE23-S4 BOS01HP

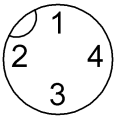
### Range/Distance

Measuring range	0...50 m
Range	0...50 m
Rated operating distance $S_n$	50 m
Ripple max. (% of $U_e$ )	15 %

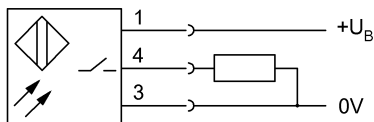
### Remarks

The sensor is functional again after the overload has been eliminated.  
For additional information, refer to user's guide.  
Order accessories separately.

### Connector view



### Wiring Diagram



### Symbols for Optoelectronic Sensors

