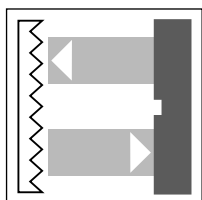




Retro-reflective photoelectric sensor

OBS6000-F10-E4-V1
OBS6000-F10-E5-V1

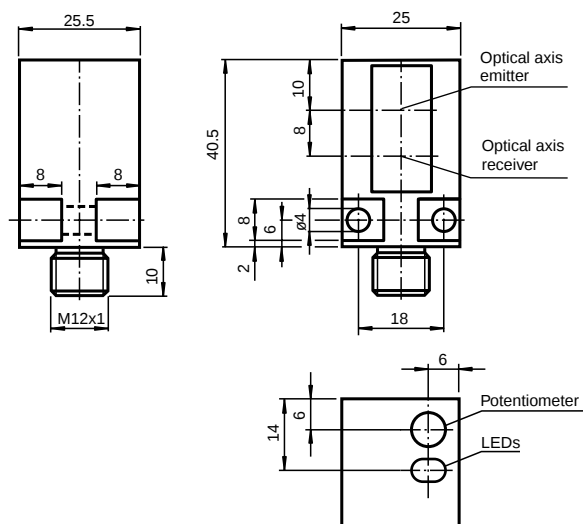


6000 mm



Features

- Pre-fault indication
- Protection degree IP67
- Universal mounting possibilities
- Light/Dark ON, programmable

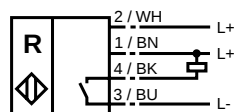


Connectors, mounting accessories etc... see "accessories" section

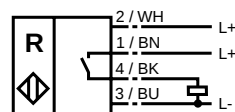
e.g. connectors: V1-G-2M-PVC (straight)
V1-W-2M-PVC (angled)

Electrical connection

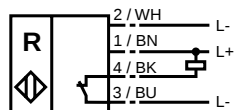
E4, N.O. (Dark ON):



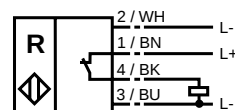
E5, N.O. (Dark ON):



E4, N.C. (Light ON):



E5, N.C. (Light ON):



Technical data

Valid for the whole family

General specifications

Sensing range	0 ... 6000 mm
Reference target	Retro-reflector 50 mm x 50 mm Type ORR 50
Operating mode	Light/Dark ON, programmable
Light type	Visible red light 660 nm polarization filter
Ambient light limit	≤ 15000 Lux sun light ≤ 7500 Lux halogen light
Standard conformity	EN 60947-5-2

Electrical specifications

Rated operational voltage	U_e 10 ... 30 V DC, ripple 10 % _{SS}
No-load supply current	I_0 ≤ 20 mA
Time delay before availability	t_v 20 ms

Indicating/operating means

LED yellow	Switching state
LED red	Pre-fault indication

Output

Rated operational current	I_e 250 mA, short circuit/overload protected
Voltage drop	U_d ≤ 1.5 V
Switching frequency	f ≤ 200 Hz
Switch-on delay	t_{on} 2.5 ms

Ambient conditions

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
Storage temperature	-40 ... 80 °C (233 ... 353 K)

Mechanical specifications

Protection degree	IP67 according to EN 60529
Connection type	V1 connector (M12 x 1), 4 pin
Material	
Housing	ABS
Light exit	Scratch resistant plastic plate
Mass	60 g

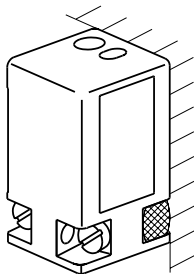
Version data

Model number	OBS6000-F10-E4-V1	OBS6000-F10-E5-V1
Output type	1 switch output E4, npn NO/ NC	1 switch output E5, pnp NO/ NC

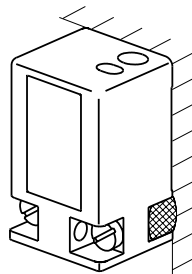
Note

Installation options:

Side mounting



Rear mounting

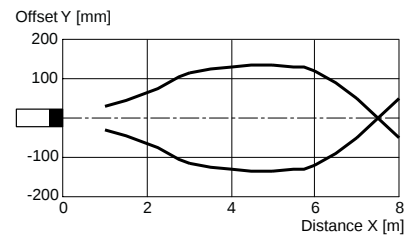


Model number

OBS6000-F10-E4-V1
OBS6000-F10-E5-V1

Characteristic curves

Characteristic response curve



Permissible distance (offset)
between optical axis and
retro-reflector.

