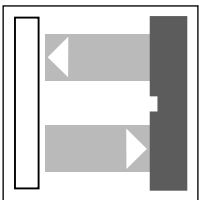


Series -F40



Diffuse reflective photoelectric sensor

OBT400-F40-E4-V1
OBT400-F40-E5-V1



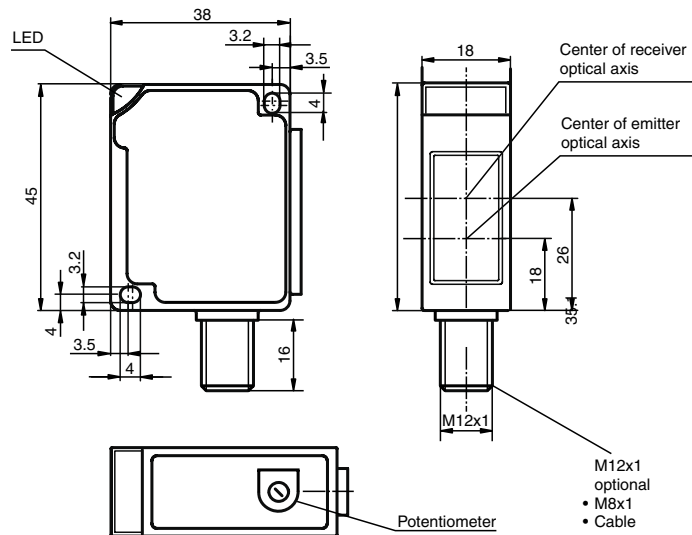
400 mm



Features

- Pre-fault indication
- Visible red light
- Protection degree IP67
- Connector M12 x 1 for fast mounting
- Light/Dark ON, programmable

Dimensions

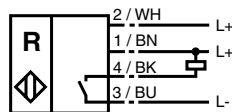


Connectors, mounting accessories etc... see "accessories" section

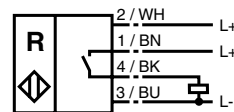
e.g. connectors: V1-G-2M-PVC (straight)
V1-W-2M-PVC (angled)

Electrical connection

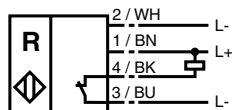
E4, N.O. (Light ON):



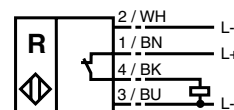
E5, N.O. (Light ON):



E4, N.C. (Dark ON):



E5, N.C. (Dark ON):



Technical data

Valid for the whole family

General specifications

Sensing range	5 ... 400 mm
Adjustment range	50 ... 400 mm
Reference target	Standard white 100 mm x 100 mm
Operating mode	Light/Dark ON, programmable
Light type	Visible red light 660 nm
Ambient light limit	≤ 10000 Lux sun light ≤ 7500 Lux halogen light

Indicating/operating means

LED yellow	Switching state
LED red	Pre-fault indication
Potentiometer	Adjustment of the sensing range

Electrical specifications

Rated operational voltage	U_e	10 ... 30 V DC , ripple 10 % _{SS}
No-load supply current	I_0	≤ 25 mA
Time delay before availability	t_v	30 ms

Output

Rated operational current	I_e	200 mA , short circuit/overload protected
Voltage drop	U_d	≤ 2.5 V
Switching frequency	f	≤ 500 Hz
Switch-on delay	t_{on}	1 ms

Ambient conditions

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

Version data

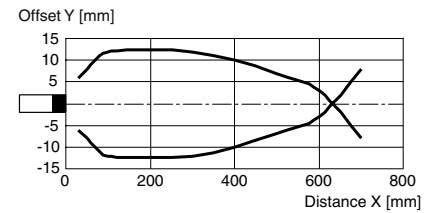
Model number	OBT400-F40-E4-V1	OBT400-F40-E5-V1
Output type	1 switch output E4, npn NO/ NC	1 switch output E5, pnp NO/ NC

Model number

OBT400-F40-E4-V1
OBT400-F40-E5-V1

Characteristic curves

Characteristic response curve



Permissible distance (offset) between optical axis and object.

