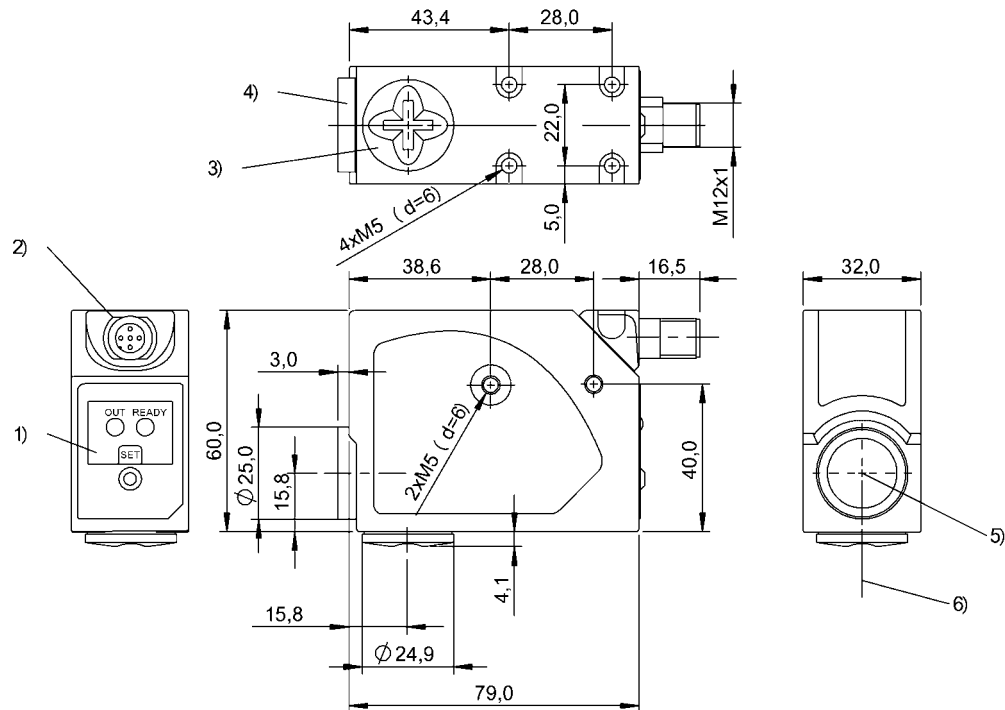


Photoelectric Sensors
BKT 67M-001-U-S92
Order Code: BKT0001

BALLUFF



1) Display and control panel, 2) rotatable 270°, 3) Cover cap, removable, 4) standard lens, removable, 5) Light exit standard, 6) Light exit optional



Basic features

Additional features	Optics convertible (light exit 0°/ 90°), vertical light spot
Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Contrast sensor
Series	67M
Style	Square Connection can be rotated

Display/Operation

Adjuster	button
Display	Output function- LED yellow Ready - LED green Error - LED green, flashing Short circuit - LED green, flashing
Setting	Contrast (switching point) Light-on/dark-on Switching output PNP/NPN

Electrical connection

Connection	Connector, M12x1-Male
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Input function	Time function on/off
Load resistance RL min. (Analog V)	2.2 kOhm
No-load current Io max. at Ue	50 mA
Operating voltage Ub	10...30 VDC
Protection class	II
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	300 ms
Ripple max. (% of Ue)	8 %
Switching frequency	15000 Hz
Turn-off delay toff max.	0.033 ms
Turn-on delay ton max.	0.033 ms
Voltage drop Ud max. at Ie	2 V

Environmental conditions

Ambient temperature	-10...55 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6 Half-sinus, 30 gn, 6 ms, 3x10000
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1 mm, 3x2 h
IP rating	IP67

Interface

Analog output	Analog, voltage 1...5.5 V
Duration of time function	20 ms
Switching output	PNP/NPN normally open/normally closed (NO/NC)
Time function	switch-off delay

Material

Housing material	Aluminium, Die casting, Painted
Material sensing surface	PMMA
Surface protection	Painted

Mechanical data

Dimension	32 x 64 x 82 mm
Mounting part	Screw M5

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Focused
LED group per IEC 62471	Exempt Group
Light spot size	1.5 x 5 mm at 9 mm
Light type	blue light/green light/red light
Principle of optical operation	Diffuse sensor, focused
Switching function, optical	Light/dark switching
Wave length	465 nm/520 nm/630 nm

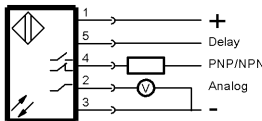
Range/Distance

Range	6...12 mm
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Remarks

The sensor is functional again after the overload has been eliminated.
For additional information, refer to user's guide.
Order accessories separately.
Do not press key using a pointed tool.
Reference object (target) for analog output: gray card, 100 x 100, 90 % remission, axial approach.
Reference object (target): Color bar card, 100 x 100, contrast yellow/white and blue/black, lateral approach of color bars, approach direction vertical to light spot length.

Wiring Diagrams



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Opto Symbols

