

Product characteristics

Retro-reflective sensor
Threaded type
M30 x 1.5
Terminals
Polarization filter
Sensing range 0.15...2m (Prismatic reflector Ø 80 (E20005))
adjustable

Electrical data

Electrical design	AC/DC
Operating voltage [V]	20...250 AC/DC
Type of light	red light 660 nm
Protection class	II
Reverse polarity protection	no

Outputs

Output function	light-on / dark-on programmable
Voltage drop [V]	< 10.5
Minimum load current [mA]	15
Leakage current [mA]	< 6

Current rating

- Current rating (continuous) [mA]	250; 350 (...50 °C)
- Current rating (peak) [mA]	î: 2.2 A (10 ms / 0.5 Hz)
Short-circuit proof	no
Overload protection	no
Switching frequency [Hz]	25 AC / 35 DC

Monitoring range

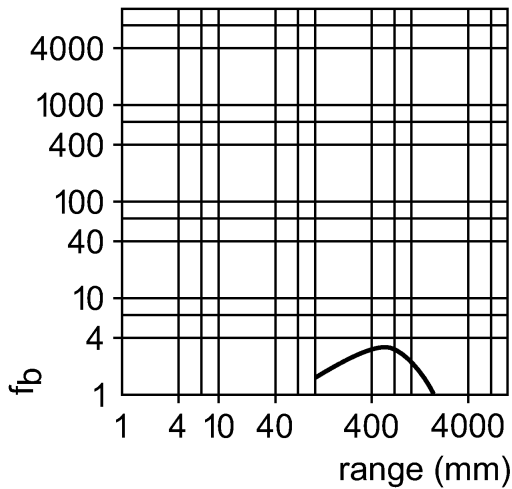
Sensing range [m]	0.15...2 (Prismatic reflector Ø 80 (E20005))
Light spot diameter [mm]	200 (at maximum range)

Excess gain graphs

OI0003

OIP-FBOA

Photoelectric sensors



Environment

Ambient temperature	[°C]	-25...60
Protection		IP 65

Tests / approvals

EMC		EN 60947-5-2
MTTF	[Years]	310

Mechanical data

Housing materials		PBT; modified PPO
Lens material		PMMA
Weight	[kg]	0.115

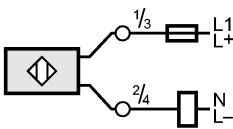
Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection		terminals up to 1.5 mm ² ; cable diameter 7...13 mm, cable gland M20 x 1.5
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Wiring



Note: miniature fuse to IEC60127-2 sheet 1, ≤ 2 A (fast acting)

Accessories

Accessories (included)		2 lock nuts; screwdriver
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Remarks

Remarks		Recommendation: check the unit for reliable function after a short circuit.
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Pack quantity	[piece]	1
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