efector200

ifm electronic

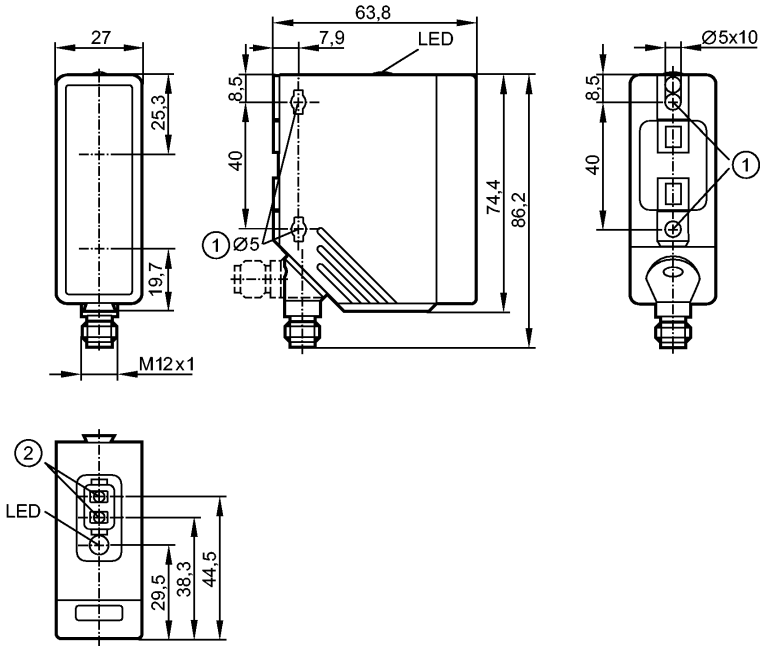
Photoelectric sensors

O4H500

O4H-FPKG/US
Diffuse reflection sensor
Rectangular, plastics
Connector

Background suppression
Teach function
Electronic lock

Range 100...2600mm
(Range referred to white paper 200 x 200 mm, 90 % remission)
adjustable



1: When a M5 mounting screw is used, the max. tightening torque is 2 Nm.
2: Programming buttons

Receiver in upper lens, transmitter in lower lens

Made in Germany

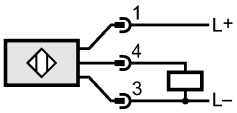
CE cULus LISTED

Electrical design Output		DC PNP light-on / dark-on programmable
Range Object white (90 % remission) Object grey (18 % remission) Object black (6 % remission)	[mm]	 100...2600 100...1300 100...900
Light spot diameter	[mm]	50 (Range 1000 mm)
Operating voltage	[V]	10...36 DC [1])
Current rating	[mA]	200
Short-circuit protection		pulsed
Reverse polarity protection		yes
Overload protection		yes
Voltage drop	[V]	< 2.5
Current consumption	[mA]	25
Switching frequency	[Hz]	1000
Type of light		red light 624 nm
Ambient temperature	[°C]	-25...60
Protection		IP 67, II
EMC		EN 60947-5-2
MTTF	[Years]	355
Housing materials		housing: PA; bezel: high-grade stainless steel; operator interface: TPE
Lens material		PMMA
Function display Switching status Connection	 LED 	 yellow M12 connector
Weight	[kg]	0.128
Remarks		[1]) operating voltage "supply class 2" to cULus.

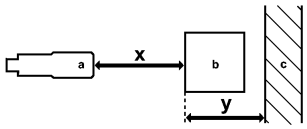
O4H500

Wiring

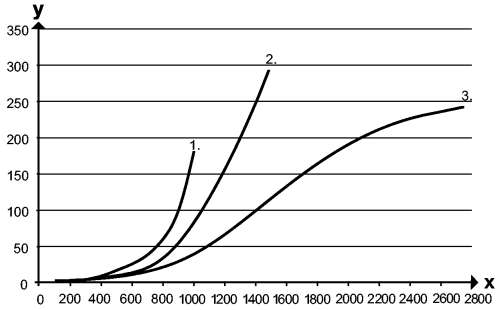




Accuracy graph



a: sensor
b: object
c: background
x: distance sensor / object
y: min. distance object / background



Values in [mm]
1 = object black (6 % remission), background white (90 % remission)
2 = object grey (18 % remission), background white (90 % remission)
3 = object white (90 % remission), background white (90 % remission)