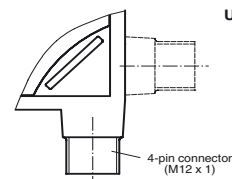
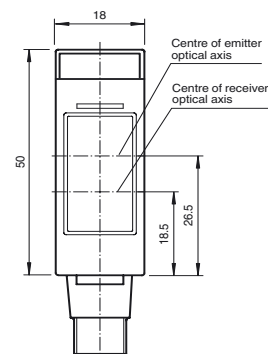
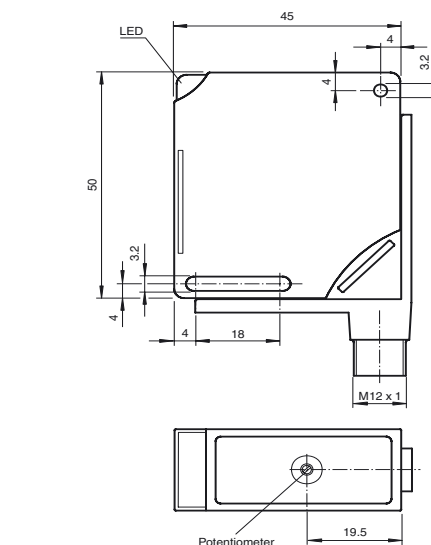




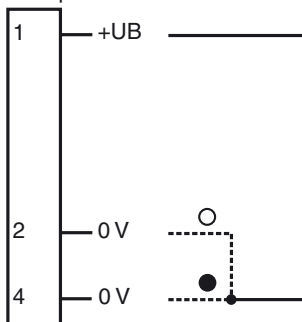
- ATEX approval for zone 1 (Gas)
- Intrinsically safe, Ex op is ia IIC T6 Gb
- Glare protected with polarization filter
- Adjustable sensitivity



Unit connector



Option: 40b



○ = Light on
● = Dark on

A Venn diagram with two overlapping circles. The top circle is labeled '1' and the bottom circle is labeled '2'. The intersection of the two circles is labeled '3'. There are four dots in the intersection and one dot in circle 2.

Technical data

General specifications

Effective detection range	0 ... 3 m
Reflector distance	300 ... 3000 mm
Threshold detection range	3 m
Reference target	H85 reflector
Light source	LED
Light type	modulated visible red light , 660 nm
Polarization filter	yes
Ambient light limit	≤ 10000 Lux sun light ≤ 7500 Lux halogen light

Functional safety related parameters

MTTF _d	1319 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Function indicator	LED yellow: switching state
Control elements	sensitivity adjustment

Electrical specifications

Operating voltage	U _B	6 ... 15.5 V DC (R _i approx. 0 Ohm)
Ripple		5 %
Power consumption	P ₀	max. 64 mW
Time delay before availability	t _v	20 ms

Output

Switching type	light/dark on, programmable	
Signal output	1 NAMUR output NC/NO programmable	
Switching voltage	8 V DC (R _i approx. 1 kΩ)	
Switching frequency	f	≤ 100 Hz
Current consumption		
Reference target detected	connection 1, 2: ≥ 2.2 mA connection 1, 4: ≤ 1 mA	
Reference target not detected	connection 1, 2: ≤ 1 mA connection 1, 4: ≥ 2.2 mA	
Response time	5 ms	

Conformity

Product standard	EN 60947-5-2
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Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 80 °C (-40 ... 176 °F)

Mechanical specifications

Housing width	18 mm
Housing height	50 mm
Housing depth	45 mm
Degree of protection	IP67
Connection	V1 connector (M12 x 1), 4-pin, rotatable through 90°
Material	
Housing	PBT
Optical face	scratch resistant plastic lens
Mass	60 g

Approvals and certificates

CCC approval	CCC approval / marking not required for products rated ≤36 V
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Curves / Diagrams

