

Technical data**General specifications**

Light source	IRE D
Light type	modulated infrared light
Tests	EN 60947-5-2
Target size	0.3 mm
Slot width	10 mm
Ambient light limit	100000 Lux

Functional safety related parameters

MTTF _d	1290 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Function indicator	LED red in connector
Control elements	Sensitivity adjuster, light/dark switch

Electrical specifications

Operating voltage	U _B	10 ... 30 V DC, class 2
Ripple		10 %
No-load supply current	I ₀	≤ 15 mA

Output

Switching type	light/dark on	
Signal output	1 PNP, short-circuit protected, open collector	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Repeat accuracy	0.05 mm	
Switching frequency	f	2 kHz
Response time		≤ 250 μs

Ambient conditions

Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-20 ... 75 °C (-4 ... 167 °F)

Mechanical specifications

Degree of protection	IP67
Connection	M8 connector, 3-pin
Material	
Housing	anodized aluminum
Optical face	glass
Mass	20 g

Approvals and certificates

CE conformity	CE
UL approval	cULus
CCC approval	CCC approval / marking not required for products rated ≤36 V

Accessories**V3-GM-2M-PUR**

Cable socket, M8, 3-pin, PUR cable

V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com