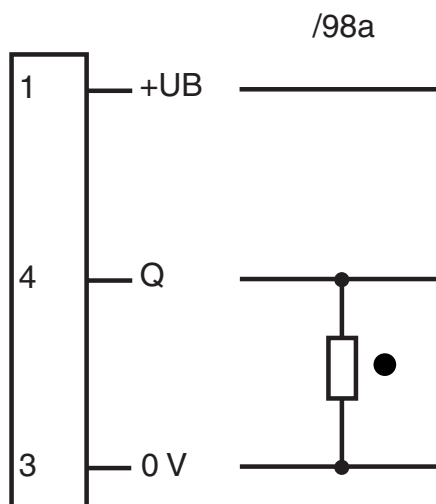




Technical Data

Resolution	0.5 mm	
Temperature influence		< 10 %
active zone	35 mm x 50 mm	
Indicators/operating means		
Function indicator	LED, yellow	
Control elements		sensitivity adjustment
Control elements	Time adjuster for Pulse stretching and Dynamic/static operation	
Electrical specifications		
Operating voltage	U _B	24 V DC ± 20 %
No-load supply current	I ₀	< 70 mA
Output		
Switching type		dark-on
Signal output	1 PNP output, short-circuit protected, reverse polarity protected, open collector	
Switching voltage		max. 30 V DC
Switching current	200 mA	
Voltage drop	U _d	< 2.5 V
Switching frequency	f	5000 Hz
Repeat accuracy	R	0.1 mm
Pulse extension	0.1 ... 150 ms	
Conformity		
Product standard	EN 60947-5-2	
Ambient conditions		
Ambient temperature	-10 ... 60 °C (14 ... 140 °F)	
Mechanical specifications		
Housing length	81 mm	
Housing width		20 mm
Housing height	90 mm	
Degree of protection		IP67
Connection	M8 connector, 3-pin	
Material		
Housing	black anodized aluminum	
Optical face		glass
Mass	200 g	

Connection Assignment



○ = Light on
● = Dark on

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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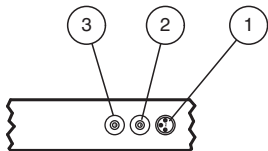
Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Assembly



1	Functional display	yellow
2	Time/static	
3	Sensitivity adjuster	

Resolution

Potentiometer setting	RAL-50	RAL-70	RAL-100	RAL-150
Minimal	0.5 mm	0.8 mm	1.0 mm	1.2 mm
Center	4.0 mm	8.0 mm	10.0 mm	15.0 mm
Maximum	8.0 mm	15.0 mm	25.0 mm	50.0 mm

The information on the maximum resolution (smallest detectable object) relates to the center of the slot grid sensor.

Configuration information

The device is set to large parts by turning the sensitivity adjustment potentiometer clockwise and to small parts by turning the sensitivity adjustment potentiometer counterclockwise.

The "time/static" potentiometer can be used both to select pulse extension in dynamic operation and to select static/dynamic operation. Static operation is selected by turning the potentiometer counterclockwise as far as it will go. Pulse extension is set to 1 ms. Pulse extension can be adjusted between 150 ms and 0 ms by turning the potentiometer clockwise.

In static operation, the output remains set while the object is within the frame. The switching threshold is not automatically tracked in this operating mode. Temperature fluctuations and dirt may trigger a switching operation.

In dynamic operation, the output is set only to the specified pulse extension. Objects that extend into the frame are hidden.

If the device becomes dirty in dynamic operation, the output is set statically at 50% reception signal.