



Model Number

KS9/KSE9/59/98a/103

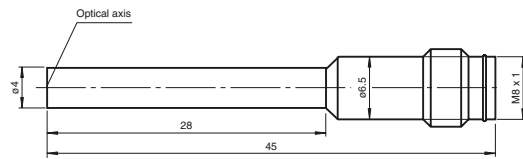
Thru-beam sensor
with 3-pin, M8 x 1 connector

Features

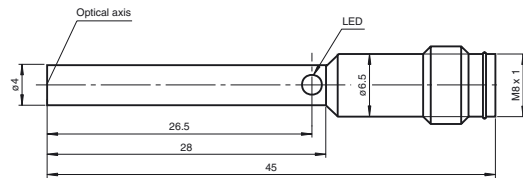
- Sensing range up to 250 mm
- Large detection range in relation to design
- Complete device, no amplifier needed
- Voltage range 10 V ... 30 V DC, output current 100 mA short-circuit protected
- Optical parts made of glass, easy cleaning
- Degree of protection IP67

Dimensions

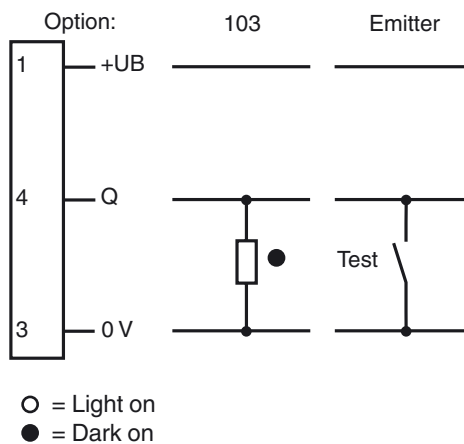
Emitter



Receiver



Electrical connection



Pinout



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Technical data**General specifications**

Effective detection range	0 ... 250 mm
Light source	LED
Light type	modulated infrared light
Optical face	frontal
Ambient light limit	10000 Lux

Indicators/operating means

Function indicator	switching state, LED yellow
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Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
Ripple		10 %
No-load supply current	I_0	≤ 15 mA (device)
Time delay before availability	t_v	≤ 20 ms

Input

Test input	inactive: ≤ 4 V; active: ≥ 8 V or unwired (emitter)
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Output

Switching type	dark on	
Signal output	1 switch output PNP	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Switching frequency	f	≤ 250 Hz
Response time		≤ 3 ms

Ambient conditions

Ambient temperature	0 ... 55 °C (32 ... 131 °F)
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Mechanical specifications

Degree of protection	IP67
Connection	M8 x 1 connector, 3-pin
Material	
Housing	Stainless steel 1.4305 / AISI 303
Optical face	Scratch resistant mineral glass lens
Mass	18 g (device)

Compliance with standards and directives

Standard conformity	
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007

Accessories**V3-GM-2M-PVC**

Female cordset, M8, 3-pin, PVC cable

V3-WM-2M-PVC

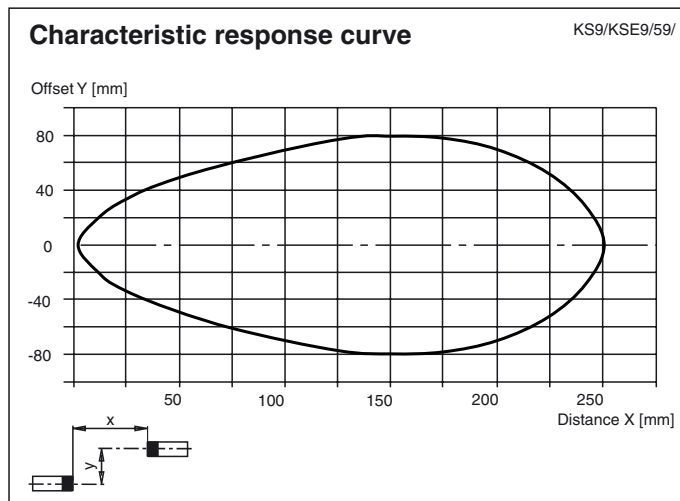
Female cordset, M8, 3-pin, PVC cable

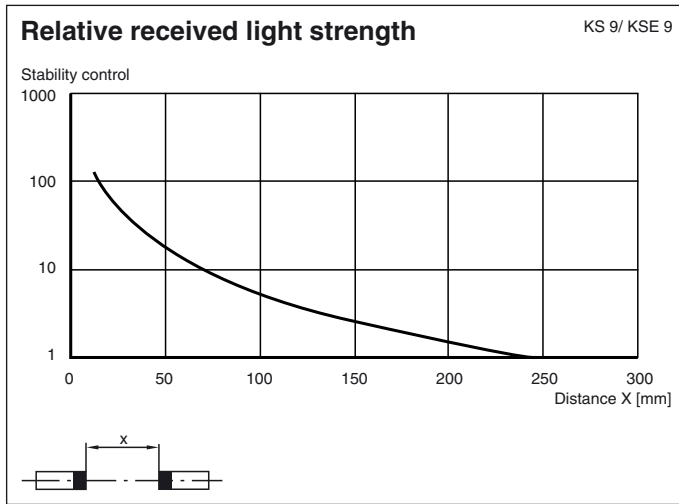
V3-GM-2M-PUR

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**Curves/Diagrams**



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

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