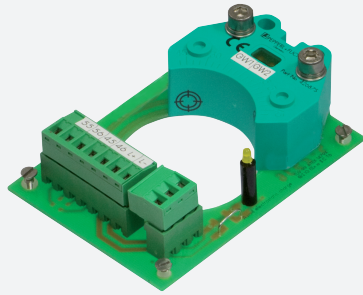


Inductive sensor

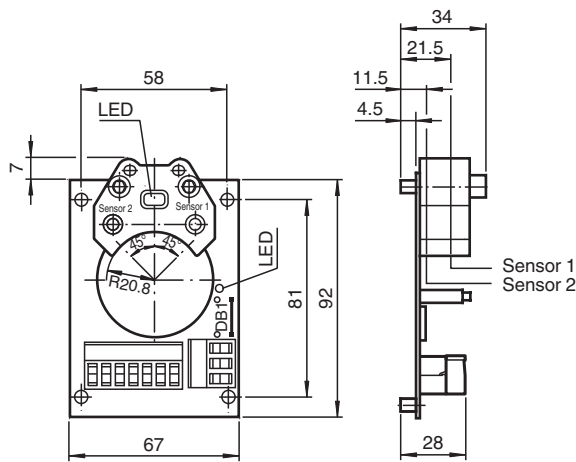
PL3-F25-N4-S



- For installation in housing
- PL3... with valve and screen connection
- ATEX & IECEx certifications



Dimensions



Technical Data

General specifications		
Switching function		2 x normally closed (NC)
Output type		NAMUR
Rated operating distance	s _n	3 mm
Installation		flush mountable
Assured operating distance	s _a	0 ... 2.43 mm
Actual operating distance	s _r	2.6 ... 2.6 mm typ.
Reduction factor r _{Al}		0.52
Reduction factor r _{Cu}		0.43
Reduction factor r ₃₀₄		0.86
Reduction factor r _{St37}		1
Reduction factor r _{Brass}		0.54
Output type		2-wire
Nominal ratings		
Nominal voltage	U _o	8.2 V (R _i approx. 1 kΩ)
Operating voltage	U _B	5 ... 25 V
Switching frequency	f	0 ... 100 Hz

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Suitable for 2:1 technology		yes , Reverse polarity protection diode not required
Current consumption		
Measuring plate not detected		≥ 3 mA at nominal voltage
Measuring plate detected		≤ 1 mA at nominal voltage
Time delay before availability	t _v	≤ 1 ms
Switching state indicator		LED, yellow
Valve status indicator		LED, yellow can be switched off by of DB1
Functional safety related parameters		
MTTF _d		834 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Electromagnetic compatibility		NE 21:2007
Standards		EN IEC 60947-5-2
Approvals and certificates		
IECEX approval		
Equipment protection level Ga		IECEX TUN 17.0021X
Equipment protection level Gb		IECEX TUN 17.0021X
Equipment protection level Mb		IECEX TUN 17.0021X
ATEX approval		
Equipment protection level Ga		TÜV 99 ATEX 1479 X
Equipment protection level Gb		TÜV 99 ATEX 1479 X
Equipment protection level Gc (ic)		PF13CERT2895 X
CCC approval		
Hazardous Location		2020322315002262
NEPSI approval		
NEPSI certificate		GYJ19.1410X
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Storage temperature		-40 ... 100 °C (-40 ... 212 °F)
Mechanical specifications		
Connection (system side)		screw terminals
Core cross section (system side)		up to 2.5 mm ²
Connection (valve side)		screw terminals
Core cross section (valve side)		up to 2.5 mm ²
Housing material		PBT
Sensing face		PBT
Mass		91 g
Tightening torque, fastening screws		0.3 Nm
Dimensions		
Height		99 mm
Width		67 mm
Length		34 mm
Note		Installation in housing
General information		
Use in the hazardous area		see instruction manuals

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Connection

