

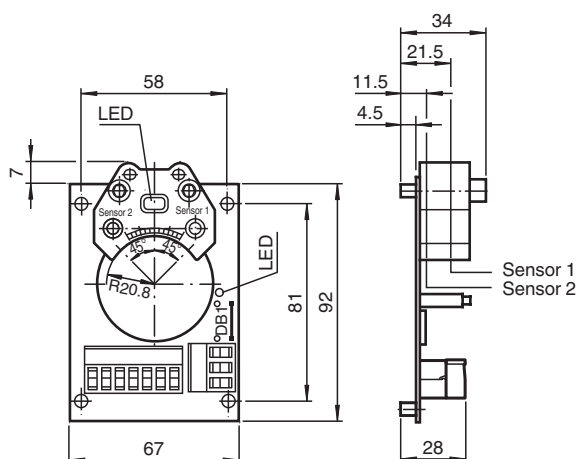
Inductive sensor

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 k Ω)
Operating voltage	U_B	5 ... 25 V

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

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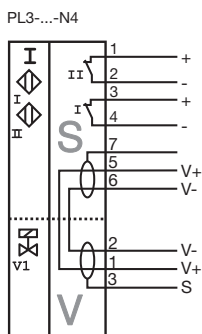
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PEPPERL+FUCHS

Technical Data

Switching frequency	f	0 ... 100 Hz
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 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
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
Note		Installation in housing
General information		
Use in the hazardous area		see instruction manuals

Connection



Accessories

	BT32	Activator for F25 series
	BT32XS	Activator for F25 series
	BT32XAS	Activator for F25 series
	BT34	Activator for F25 series
	BT33	Activator for F25 series