

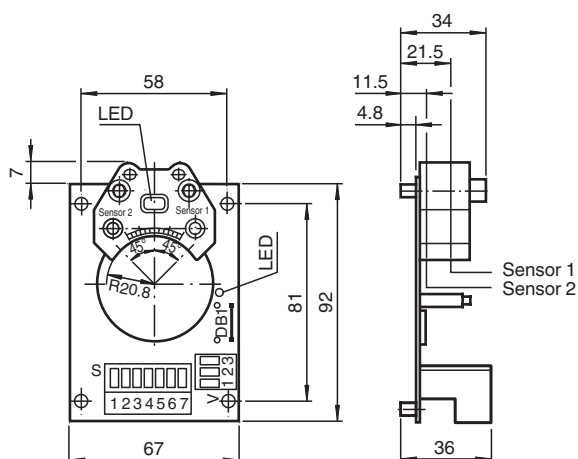
Inductive sensor

PL3-F25-N4-K

- For installation in housing
- PL3... with valve and screen connection
- Valve LEDs disconnectable (wire jumper)
- 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	2.7 ... 3.3 mm
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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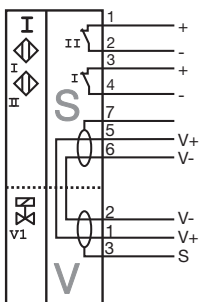
PEPPERL+FUCHS

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)		Cage tension spring terminals
Core cross-section (system side)		up to 2.5 mm ²
Connection (valve side)		Cage tension spring 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
General information		
Use in the hazardous area		see instruction manuals

Connection

PL3-...-N4



Accessories

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