

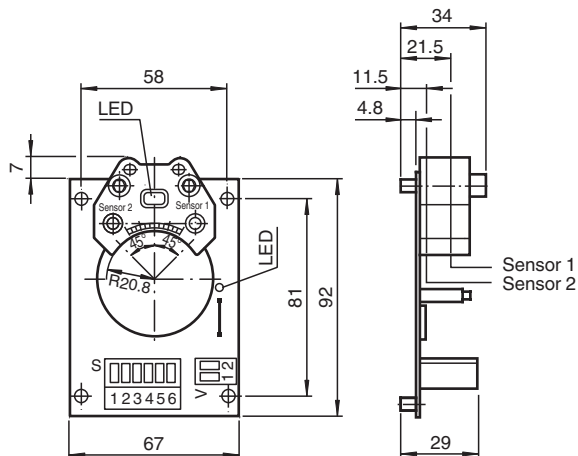
Inductive sensor

PL1-F25-E8-K

- For installation in housing
- PL1... with valve connection
- Valve LEDs disconnectable (wire jumper)
- Direct mounting on standard actuators



Dimensions



Technical Data

General specifications

Switching function		2 x normally open (NO)
Output type		PNP
Rated operating distance	s_n	3 mm
Installation		flush mountable
Output polarity		DC
Assured operating distance	s_a	0 ... 2.43 mm
Actual operating distance	s_r	2.6 ... 2.6 mm typ.
Reduction factor r_{AI}		0.5
Reduction factor r_{304}		1
Reduction factor r_{St37}		1.1

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 100 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected

Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 095096_eng.pdf

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

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Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3 \text{ V}$
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	I_0	$\leq 25 \text{ mA}$
Time delay before availability	t_v	$\leq 500 \text{ ms}$
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Valve status indicator		LED, yellow

Compliance with standards and directives

Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007

Ambient conditions

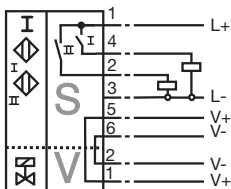
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)

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
Degree of protection		IP20

Connection

PL1-...-E8



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