

Features

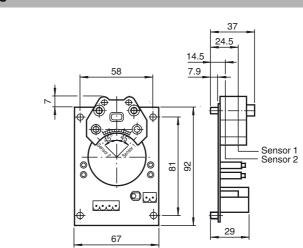
- For installation in housing ٠
- PL1... with valve connection .
- 4-way LED indicator
- Lead breakage and short-circuit monitoring of the valve
- After an AS-interface communication error the valve voltage falls
- **Direct mounting on standard actuators** •

Technical Data	
General specifications	
Switching function	
Output type	
Rated operating distance	sn
Installation	
Assured operating distance	sa
Reduction factor r _{Al}	
Reduction factor r ₃₀₄	
Reduction factor r _{St37}	
Slave type	
AS-Interface specification	
Required master specification	
Output type	
Nominal ratings	
Operating voltage	UB
Switching frequency	f
Reverse polarity protection	
Operating current	۱ _L
Indicators/operating means	
LED POWER	
LED IN	
LED OUT	
Electrical specifications	
Rated operating voltage	Ue
Ambient conditions	
Ambient temperature	
Storage temperature	
Mechanical specifications	
Connection (system side)	
Core cross-section (system side)	
Connection (valve side)	
Core cross-section (valve side)	
Housing material	
Sensing face	
Degree of protection	
Material	
Housing	
Note	
Compliance with standards and	
directives	
Standard conformity	

Normally open/closed (NO/NC) programmable AS-Interface 3 mm flush mountable 0 ... 2.43 mm 0.5 1 1.2 Standard slave V2.1 ≥ V2.1 2-wire 26.5 ... 31.9 V via AS-i bus system 0 ... 100 Hz reverse polarity protected 100 mA AS-Interface voltage; LED green switching state (input); LED yellow binary LED yellow/red yellow: switching state red: lead breakage/short-circuit 26.5 ... 31.6 V from AS-Interface -25 ... 70 °C (-13 ... 158 °F) -25 ... 85 °C (-13 ... 185 °F) screw terminals up to 2.5 mm² screw terminals up to 2.5 mm² PBT PBT IP00 PBT The valve voltage is limited of max. 26.4 V; valve power max. 2.1 W

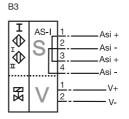
Dimensions

Standards



EN 60947-5-2:2007 IEC 60947-5-2:2007

Electrical Connection



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

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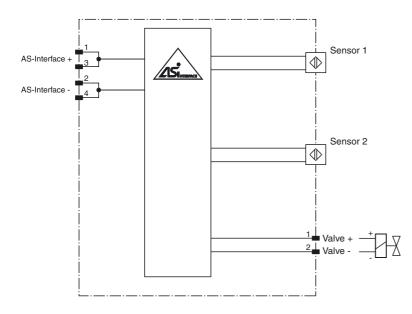
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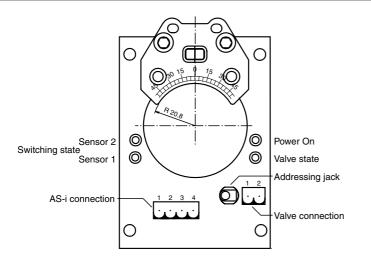
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PL1-F25-B3-S

⁵ PEPPERL+FUCHS 1



Additional Information



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

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PEPPERL+FUCHS

Programming instructions

Programming instructions			
Ad	ress IO-code	00 preset, alterable via Busmaster or D	
	ID-code	F	
	ID1-code	F	
	ID2-code	F	
Da	ta bit	1	
	Bit	Function	
	D0	valve status	
		(0 = valve OFF; 1 = valve ON)	
	D1	valve fault ¹⁾	
		(0 = lead breakage/short circuit;	
		1 = no fault)	
	D2	switch output sensor 1	
		(0 = damped; 1 = undamped)	
	D3	switch output sensor 2	
		(0 = damped; 1 = undamped)	
Parameterbit			
	Bit	Function	
	P0	not used	
	P1	not used	
	P2	not used	
	P3	not used	
1)	Verification	only with actuated valve $(D0 = 1)$	

Fixing devices are being used everywhere in great number for product flow monitoring. In the majority of applications, these fixing devices are controlled pneumatically through a shaft rotation of 90° whose end position is typically reported back to the control system.

Standard housings as described in VDI/VDE 3845 (connection points, actuator, drive mechanism-actuator accessories) containing feedback proximity switches are used in most cases. The drive mechanisms are usually controlled by a control valve.

This printed circuit board was developed for use in just such standard housings. It includes connection technology (2 x AS-i and control valve), the NCN3-F25 double sensor and AS-i switching technology.

Proximity switch states, the control command for the pilot valve and electrical power can be transferred over the AS-i lead (2 inputs, 1 output). A socket is provided for address programming. This means it is not necessary to form a loop with the AS-i line. A break in the valve cable is detected when this valve is activated and is reported back to the control system via the AS-i.