

PL1-F25-B3B-S

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** •

Accessories

BT32 Activator for F25 series BT32XS Activator for F25 series BT32XAS Activator for F25 series BT33 Activator for F25 series **BT**34 Activator for F25 series

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Output type	
Rated operating distance	s
Installation	
Assured operating distance	s
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	ι
Switching frequency	f
Reverse polarity protection	
Operating current	۱
Indicators/operating means	
LED PWR	
LED OUT	
Programming instructions	
Parameter bits (programmable via	٩S
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	
Note	
Compliance with standards and	
directives	
Standard conformity	

Technical Data General specifications Switching function

Standards

Dimensions

Normally open/closed (NO/NC) programmable AS-Interface 3 mm flush mountable 0 ... 2.43 mm 0.5 1 1.2 A/B slave V3.0 ≥ V2.1 2-wire 26.5 ... 31.9 V via AS-Interface network ЪВ 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 -i) -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 The valve voltage is limited of max. 26.4 V; valve power max. 2.1 W

EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 50295:1999

37 24.5 14.5 7.9 58 Sensor 1 Sensor 2 92 0 8 ē õ Ow ww ¢ Ю 29 67

Electrical Connection



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

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Additional Information



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Programming instructions

Address	00 preset, alterable via Busmaster or programming units
IO-code ID-code ID1-code ID2-code	D A 7 E
Data bit	
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)
Parameterb	it
Bit	Function
P0	not used

P1	not used
P2	not used

P3 not used

1) Verification only with actuated value (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.