





Model Number

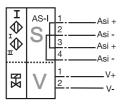
PL1-F25-B3B-S

Features

- For installation in housing
- Removable screw terminals
- PL1... with valve connection
- 4-way LED indicator
- Satisfies machinery directive
- Lead breakage and short-circuit monitoring of the valve
- After an AS-interface communication error the valve voltage falls

Connection

взв



Accessories

BT32

Activator for F25 series BT32XS

Activator for F25 series BT32XAS

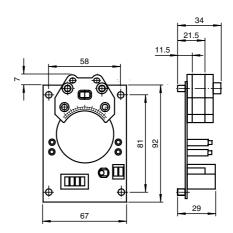
Activator for F25 series

BT33 Activator for F25 series

BT34

Activator for F25 series

Dimensions



Technical Data

General	cnoolf	iontione

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Switching element function		AS-Interface
Rated operating distance	s _n	3 mm
Installation		embeddable mountable
Output polarity		AS-Interface
Assured operating distance	sa	0 2.43 mm
Reduction factor r _{Al}		0.5
Reduction factor r ₃₀₃		1
Reduction factor r _{St37}		1.2
Slave type		A/B slave
AS-Interface specification		V3.0
Required master specification		≥ V2.1

Nominal ratings

Operating voltage	U_B	26.5 31.9 V via AS-Interface network
Switching frequency	f	0 100 Hz
Reverse polarity protected		reverse polarity protected
Operating current	l _l	100 mA

Operating current Indicators/operating means

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LED PWR	AS-Interface voltage; LED green
LED IN	switching state (input); LED yellow
LED OUT	binary LED yellow/red
	yellow: switching state
	red: lead breakage/short-circuit

Ambient conditions

Ambient temperature	-25 70 °C (-13 158 °F)
Storage temperature	-25 85 °C (-13 185 °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
Protection degree	IP00
Note	The valve voltage is limited f max. 26.4 V; valve power max. 2.1

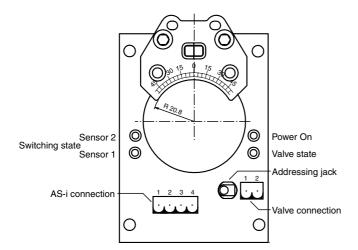
Compliance with standards and directives

Standard conformity

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

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Supplementary information



Programming instructions

00 preset, alterable via Address Busmaster or programming units IO-code

ID-code ID1-code ID2-code

Data bit Function valve status (0 = valve OFF; 1 = valve ON) D0 valve fault 1) D1 (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)

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Programming instructions

00 preset, alterable via Address Busmaster or programming units IO-code ID-code ID1-code ID2-code

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)

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.

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