





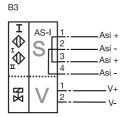
## **Model Number**

## PL1-F25-B3-S

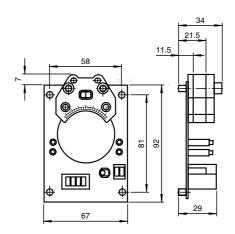
## **Features**

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

### Connection



## **Dimensions**



## **Technical Data**

	AS-Interface
s <sub>n</sub>	3 mm
	flush mountable
	AS-Interface
sa	0 2.43 mm
	0.5
	1
	1.2
	Standard slave
	V2.1
	≥ V2.1

lominal ratings
Required master specification
710 Intoriaco opocinication

· ·		
Operating voltage	$U_{B}$	26.5 31.9 V via AS-i bus system
Switching frequency	f	0 100 Hz
Reverse polarity protected		reverse polarity protected
Operating current	IL	100 mA

### Indicators/operating means

LED POWER	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

Electrical specifications		
Rated operational voltage	U <sub>e</sub>	26.5 31.6 V from AS-Interface
Ambient conditions		

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

N	lechanical specifications	
	Connection (system side)	screw terminals
	Core cross-section (system side)	up to 2.5 mm <sup>2</sup>
	Connection (valve side)	screw terminals
	Core cross-section (valve side)	up to 2.5 mm <sup>2</sup>
	Housing material	PBT
	Sensing face	PBT
	Protection degree	IP00
	Material	
	Housing	PBT
	Note	The valve voltage is limited of max. 26.4 V; valve power max. 2.1

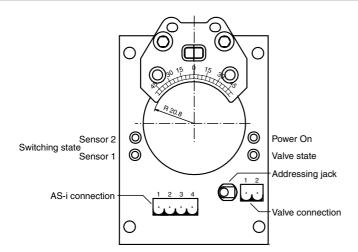
### Compliance with standards and directives

Standard	conformity

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

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## **Supplementary information**



## Programming instructions

00 preset, alterable via Adress Busmaster or D IO-code ID-code ID1-code F ID2-code F

## Data

ata 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 F

Bit	Function
P0	not used
P1	not used
P2	not used
P3	not used

1) Verification only with actuated valve (D0 = 1)

**PEPPERL+FUCHS** 

### Programming instructions

Adress 00 preset, alterable via Busmaster or IO-code DID-code FID1-code FID2-code F

### Data bit

Bit Function

Do 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)

switch output sensor 2 (0 = damped; 1 = undamped)

### Parameterbit

D3

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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