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inductieve eindschakelaars P&F NCN3-F31-B3B-V1-K

Inductive sensor

NCN3-F31-B3B-V1-K



Model Number

NCN3-F31-B3B-V1-K

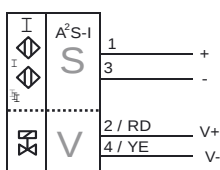
Valve positioner and valve control module

Features

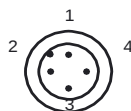
- Direct mounting on standard actuators
- Nominal sensing range 3 mm by V2A target
- A/B slave with extended addressing possibility for up to 62 slaves
- Mode of operation, programmable
- Protection degree IP67
- Communication monitoring, turn-off
- Lead breakage and short-circuit monitoring of the valve

Connection

B3B-V1-K



Pinout



Accessories

BT65A

Activator for F31 series

BT65X

Activator for F31 series

BT115A

Activator for F31 series

BT115X

Activator for F31 series

BT65B

Activator for F31 series

BT115B

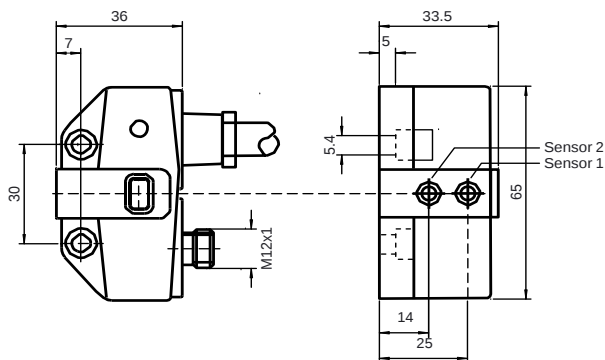
Activator for F31 series

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-G-2M-PUR

Dimensions



Drawing without actuator

Technical Data

General specifications

Switching element function		programmable
Rated operating distance	s_n	3 mm
Installation		embeddable mountable
Output polarity		AS-Interface
Assured operating distance	s_a	0 ... 2.43 mm
Reduction factor r_{AI}		0.5
Reduction factor r_{Cu}		0.45
Reduction factor r_{303}		1
Reduction factor r_{Si37}		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-i bus system
Switching frequency	f	0 ... 100 Hz
No-load supply current	I_0	≤ 35 mA

Functional safety related parameters

MTTF _d		842 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %

Indicators/operating means

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

Electrical specifications

Rated operational voltage	U_e	26.5 ... 31.6 V from AS-Interface
Rated operational current	I_e	100 mA

Ambient conditions

Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection (system side)		connector M12 x 1, 4-pin
Connection (valve side)		0.5 m, PVC cable
Core cross-section (valve side)		0.75 mm ²
Protection degree		IP67
Material		
Housing		PBT
Note		valve voltage limited to 26,4 V max.; valve power 2,5 W max.

Compliance with standards and directives

Standard conformity		
Electromagnetic compatibility		EN 50295:1999-10
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.