



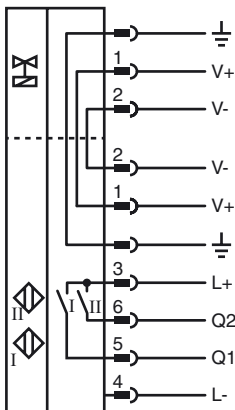
Model Number

NBN3-F31-E8-K-K-Y226456

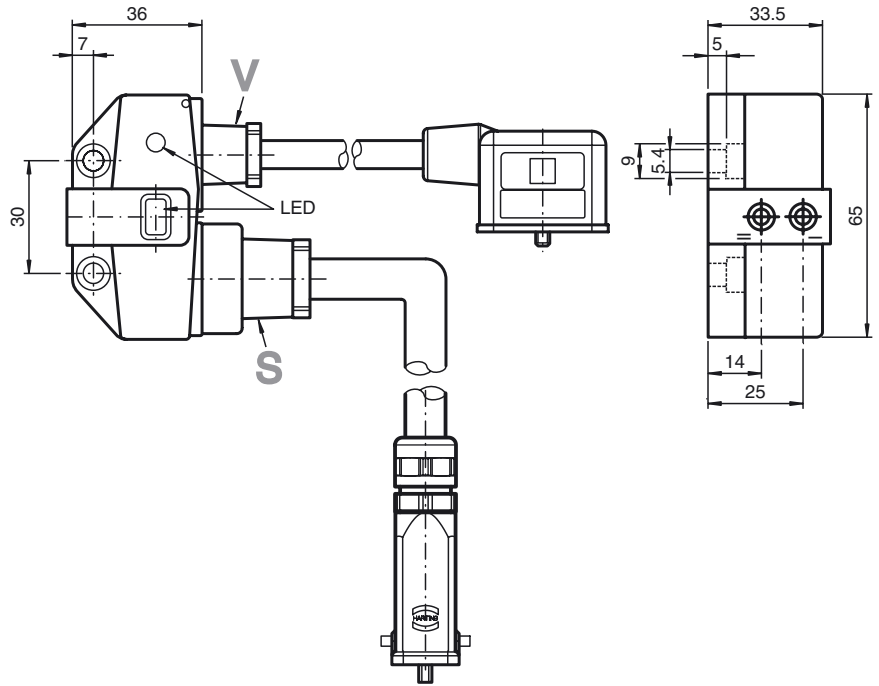
Features

- Direct mounting on standard actuators
- Compact and stable housing
- Fixed setting
- Satisfies machinery directive

Connection



Dimensions



Technical Data

General specifications

Switching element function	PNP	Dual NO
Rated operating distance	s_n	3 mm
Installation		flush mountable
Output polarity		DC
Assured operating distance	s_a	0 ... 2.43 mm
Reduction factor r_{A1}		0.5
Reduction factor r_{Cu}		0.4
Reduction factor r_{303}		1
Reduction factor r_{S137}		1.2

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protected		all connections
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_o	≤ 25 mA
Operating voltage display		LED, green
Indication of the switching state		LED, yellow
Valve status indication		LED, yellow

Ambient conditions

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

Connection (system side)	300 mm PUR cable Harting connector No. 09370030301, Type HAN 3A-gg Number of pins, 6+PE Pflitsch cable gland, blue globe
Core cross-section (system side)	0.5 mm ²
Connection (valve side)	400 mm PUR cable Valve socket, DIN EN 175301-803, Number of pins, 2+PE
Core cross-section (valve side)	0.75 mm ²
Housing material	PBT
Sensing face	PBT
Protection degree	IP67

Compliance with standards and directives

Standard conformity	
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.

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