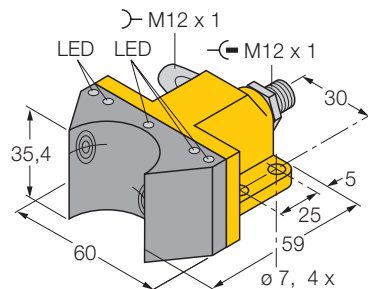
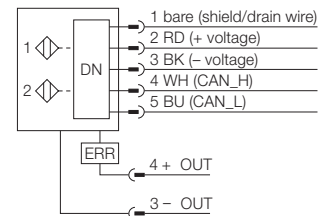


Inductive sensor dual sensor for rotary actuators Ni4-DSU35-2DNetX5-H1150



- dual sensor, housing style DSU35
- plastic, PP-GF30-VO
- two switching outputs for monitoring the position of rotary actuators
- direct connection to DeviceNet networks
- valve connection possible
- 5-wire DC, 11...25 VDC
- connector, M12 x 1

Wiring diagram



Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. For this they use a high-frequency electro-magnetic AC field that interacts with the target. With inductive sensors, this field is generated by an LC resonant circuit with a ferrite core coil.

LED explanation

LED	Colour	State	Status
S01	YE	on	target detected
S02	YE	on	target detected
out	YE	off	output off
		on	output on
ERR	RD	on	output on/off: wirebreak detected
status	RD/GN	off	sensor not powered
		GN on steady	sensor active and allocated by a master
		GN flashing	sensor active but not allocated by a master
		RD flashing	recoverable fault (open output, invalid input state, low bus voltage, I/O timeout)
		RD on steady	major fault (duplicate address, baud rate, bus off comm.)
		GN+RD on	autobaud detect
		GN+RD flashing	power-up test

Type	Ni4-DSU35-2DNetX5-H1150
Ident-No.	1569908
Rated operating distance S_n	4 mm
Mounting mode	non-flush
Hysteresis (switching distance)	3... 15 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	11... 25 VDC
No-load current I_0	≤ 60 mA
Max. switching frequency	≤ 0,05 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	5-wire, normally open, DeviceNet
Short-circuit protection	yes
Address (MacID)	0 - 63, via EDS file
Baud rate	via EDS Datei
Input data DeviceNet	Bit 0 S01 input / Bit 1 S02 input / Bit 2 output error / Bit 7 Input error
Output data DeviceNet	Bit 3 - Bit 6, not used
Output voltage U_{out}	Bit 0 valve output
Output current rotary actuator I_{out}	Bit 1 - Bit 7, not used
Short-circuit protection / Watchdog	U_B - 3 V, PNP
Wire breakage protection I_{out}	≤ 80 mA grounding not allowed
	yes / no
	≤ 0,1 mA
Housing style	dual sensor for valve monitoring; DSU35
Dimensions	59 x 60 x 35 mm
Housing material	plastic, PP-GF30
Active face	plastic, PP-GF30
Wiring	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67

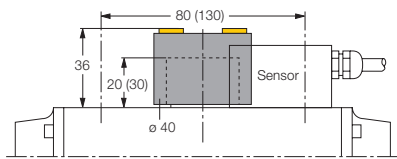
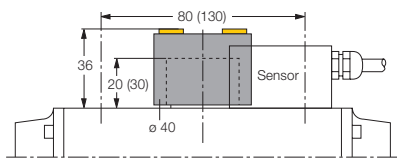
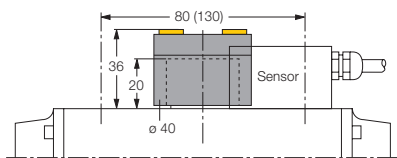
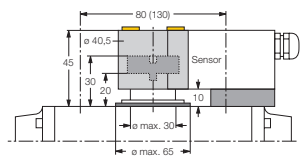
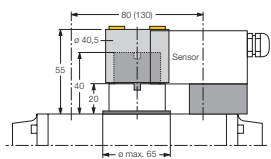
**Inductive sensor
dual sensor for rotary actuators
Ni4-DSU35-2DNetX5-H1150**

Mounting instructions

see mounting accessories

Inductive sensor dual sensor for rotary actuators Ni4-DSU35-2DNetX5-H1150

Accessories

Typ	Ident-No.	Description	Dimension drawing
BTS-DSU35-EB1	6900225	actuation kit (puck); end position dampened; hole pattern on flange surface 80 x 30 mm and 130 x 30 mm; connection shaft (shaft extension) height 20 (30) mm / Ø max. 30 mm	
BTS-DSU35-EU1	6900227	actuation kit (puck); end position undampened; hole pattern on flange surface 80 x 30 mm and 130 x 30 mm; connection shaft (shaft extension) height 20 mm / Ø max. 30 mm	
BTS-DSU35-EBE1	6900226	actuation kit (puck), end position dampened and adjustable switch point; hole pattern on flange surface 80 x 30 mm and 130 x 30 mm; connection shaft (shaft extension) height 20 / Ø max. 30 mm	
BTS-DSU35-Z01	6900229	mounting set for large rotary actuators: Ø disc and snap ring max. 65 mm; hole pattern on flange surface 30 x 80 mm (30 x 130 mm); connection shaft (shaft extension) height 30 mm / Ø max. 30 mm	
BTS-DSU35-Z02	6900230	mounting set for large rotary actuators: Ø disc and snap ring max. 65 mm; hole pattern on flange surface 30 x 80 mm (30 x 130 mm); connection shaft (shaft extension) height 20 (30) mm / Ø max. 40 mm	
BTS-DSU35-Z03	6900231	mounting set for large rotary actuators: Ø disc and snap ring max. 110 mm; hole pattern on flange surface 30 x 130 mm; connection shaft (shaft extension) height 30 mm / Ø max. 70 mm	