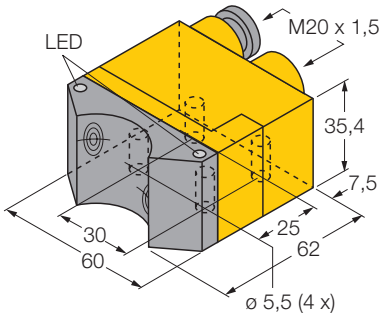
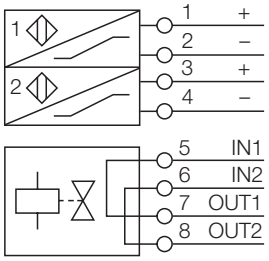
inductive
dual sensor for rotary actuators
Ni4-DSU35TC-2Y1X2/S933



Type	Ni4-DSU35TC-2Y1X2/S933
Ident-No.	1051011
Rated operating distance Sn	4 mm
Mounting mode	non-flush
Hysteresis (switching distance)	1... 10 %
Min. repeat accuracy	≤ 2 %
Temperature drift	≤ ± 10 %
Operating temperature	-25 ...+ 70 °C
Voltage	nom. 8,2 VDC
Current consumption (off-state)	≥ 2,1 mA
Current consumption (on-state)	≤ 1,2 mA
Max. switching frequency	≤ 0,05 kHz
Output function	4-wire, NAMUR
Solenoid connection	EExi (max. 45 V)
Approval according to	KEMA 02 ATEX 1090X
Internal inductivity (L_i) / capacitivity (C_i)	150 nF / 150 µH
Marking of device	⟨Ex⟩ II 2 G EEx ia IIC T6
	(max. U_i = 15 V, I_i = 60 mA, P_i = 200 mW)
Warning	Avoid static charge
Housing style	dual sensor for valve monitoring; DSU35
Dimensions	62 x 60 x 35 mm
Housing material	plastic, PP-GF30
Active face	plastic, PP-GF30
Wiring	terminal chamber
Clamping ability	≤2,5 mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	2 x LED yellow / yellow
Included with sensor	2 cable glands (black), 1 blind plug, 1 blank lable

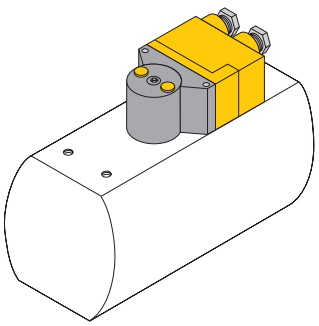
- **dual sensor, housing style DSU35**
- **plastic, PP-GF30-VO**
- **two switching outputs for monitoring the position of rotary actuators**
- **mounting on all standard actuators without additional mounting hardware**
- **press-in and threaded sockets made of stainless steel**
- **approved by BASF**
- **2-wire DC, nom. 8.2 VDC**
- **2 outputs according to DIN EN 60947-5-6 (NAMUR)**
- **terminal chamber**

Wiring diagram



Function principles

Inductive proximity switches are designed for wear-free non-contact detection of metal objects. Dual sensors are especially designed for position detection in rotary actuators. They combine the reliability of non-contact inductive sensor with the flexibility of a modular housing system.



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inductive
dual sensor for rotary actuators
Ni4-DSU35TC-2Y1X2/S933

Mounting instructions	see mounting accessories

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inductive
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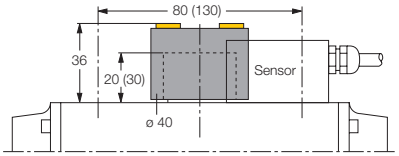
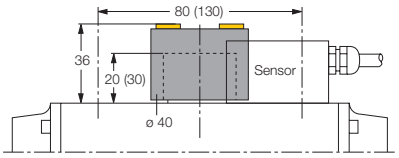
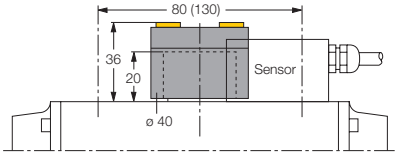
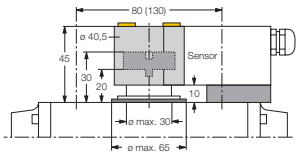
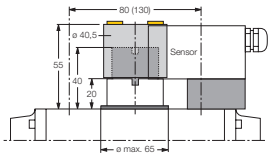
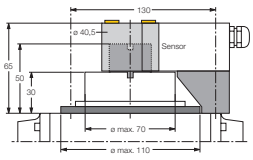
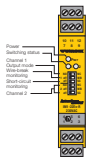
Accessories

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	
IM1-22EX-R/24VDC	7541210	Isolating switching amplifier, two channels; input for NAMUR signals; optional wire-break and short-circuit monitoring function; selectable normally open or normally closed performance; removeable terminal blocks; 18 mm wide; supply voltage 24 VDC; further isolating switching amplifiers in our "Interface Technology" catalogue.	

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