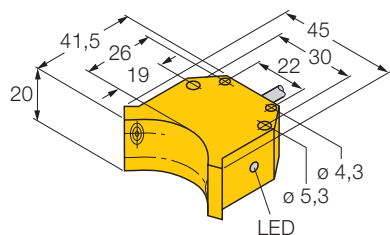
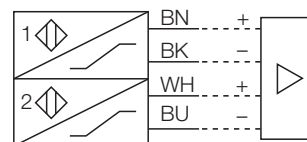


inductive dual sensor for rotary actuators Ni4-DS20-2Y1X2



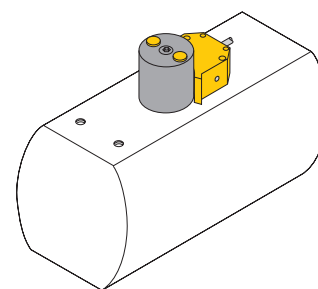
- dual sensor, housing style DS20
- plastic, PBT-GF30-VO
- two switching outputs for monitoring the position of rotary actuators
- mounting on all standard actuators without additional mounting hardware
- 2-wire DC, nom. 8.2 VDC
- 2 outputs according to DIN EN 60947-5-6 (NAMUR)
- cable connection

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.



Type	Ni4-DS20-2Y1X2
Ident-No.	1050002
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
Approval according to	KEMA 02 ATEX 1090X
Internal inductivity (L _i) / capacitance (C _i)	150 nF / 150 µH *
Marking of device	* Value for pre-fixed cable up to 30m (Ex) II 2 G EEx ia IIC T6 (max. U _i = 15 V, I _i = 60 mA, P _i = 200 mW)
Housing style	dual sensor for valve monitoring; DS20
Dimensions	42 x 45 x 20 mm
Housing material	plastic, PBT-GF30-VO
Active face	plastic, PBT-GF30-VO
Wiring	cable
Cable	Ø 5,2, LifYY, PVC, 2 m
Cable cross section	4 x 0,34 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 / red

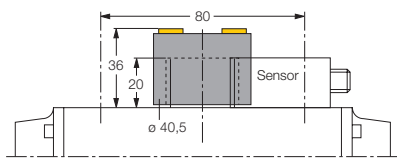
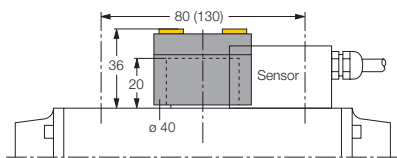
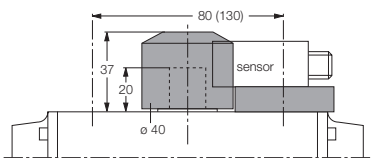
**inductive
dual sensor for rotary actuators
Ni4-DS20-2Y1X2**

Mounting instructions

see mounting accessories

inductive dual sensor for rotary actuators Ni4-DS20-2Y1X2

Accessories

Typ	Ident-No.	Description	Dimension drawing
BTS-DS20-TP1	6900155	actuation kit (puck); end position dampened; hole pattern on flange surface 80 x 30 mm; connection shaft (shaft extension) height 20 mm / Ø max. 30 mm	
BTS-DS20-TK1	6900156	actuation kit (puck); end position dampened; hole pattern on flange surface 80 x 30 mm (130 x 30 mm); connection shaft (shaft extension) height 30 mm / Ø max. 30 mm	
BTS-DS20-KEY	6900136	actuation kit (puck), end position dampened and adjustable switch point; hole pattern on flange surface 80 x 30 mm (130 x 30 mm); connection shaft (shaft extension) height 20 / Ø max. 22 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.	