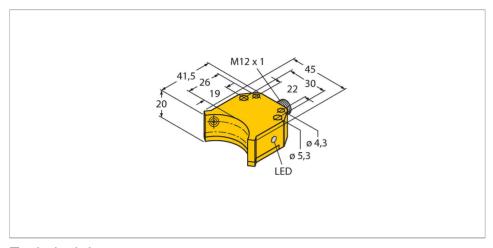


# NI4-DS20-2AP6X2-H1141 Inductive Sensor – For Rotary Actuators





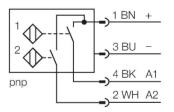
ated switching distance 4  dounting conditions N  p  orrection factors S  =	1650020  4 mm  Non-flush, Mounting on metal on the non- printed (rear) side permitted  St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4  \$ 2 % of full scale  \$ ±10 %
ated switching distance 4  lounting conditions N p orrection factors S =	Non-flush, Mounting on metal on the non- printed (rear) side permitted  St37 = 1; AI = 0.3; stainless steel = 0.7; Ms = 0.4  ≤ 2 % of full scale ≤ ±10 %
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=	= 0.4 ≤ 2 % of full scale ≤ ±10 %
epeat accuracy ≤	≤ ±10 %
emperature drift ≤	AF 0/
ysteresis 3	315 %
lectrical data	
perating voltage 1	1030 VDC
esidual ripple ≤	≤ 10 % U <sub>ss</sub>
C rated operational current ≤	≤ 200 mA
o-load current 1	15 mA
esidual current ≤	≤ 0.1 mA
olation test voltage ≤	≤ 0.5 kV
hort-circuit protection ye	ves / Cyclic
oltage drop at I。 ≤	≤ 1.8 V
/ire breakage/Reverse polarity protection C	Complete
utput function 4	1-wire, NO contact, PNP
witching frequency 0	0.05 kHz
lechanical data	
esign D	Dual sensor for valve monitoring, DS20



### **Features**

- Rectangular, housing DS20
- ■Plastic, PBT-GF30-VO
- Two switching outputs for monitoring the position of rotary actuators
- Mounting on all standard actuators
- ■2 x NO contact, PNP output
- ■DC 4-wire, 10...30 VDC

# Wiring diagram



# Functional principle

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



## Technical data

Dimensions	42 x 45 x 20 mm	
Housing material	Plastic, PBT-GF30-V0	
Active area material	Plastic, PBT-GF30-V0	
Max. tightening torque of housing nut	3 Nm	
Electrical connection	Connector, M12 × 1	
Environmental conditions		
Ambient temperature	-25+70 °C	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	2 × LEDs, Yellow/yellow	

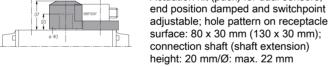
## Accessories

BTS-DS20-TP1	6900155
80 (130)	Actuation kit (puck) for dual sensors;

end position damped; hole pattern on receptacle surface: 80 x 30 mm; connection shaft (shaft extension) height: 20 mm/Ø: max. 30 mm

BTS-DS20-KEY 6900136

Actuation kit (puck) for dual sensors;



### BTS-DS20-TK1



Actuation kit (puck) for dual sensors; end position damped; hole pattern on receptacle surface: 80 x 30 mm (130 x 30 mm); connection shaft (shaft extension) height: 30 mm/Ø: max. 30 mm

6900156

Dimension drawing	Туре	ID	
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length:

