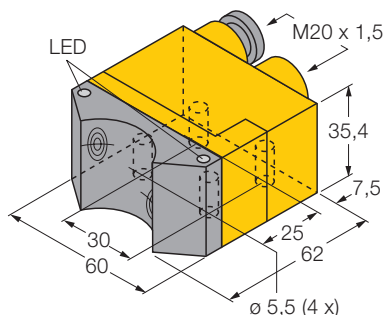


## inductive dual sensor for rotary actuators Ni4-DSU35TC-2AP4X2



**Type** Ni4-DSU35TC-2AP4X2  
**Ident-No.** 1569902

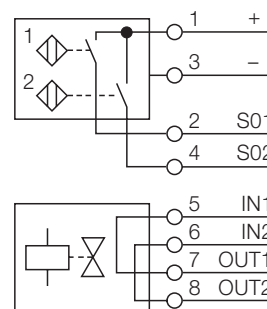
|                                                        |                             |
|--------------------------------------------------------|-----------------------------|
| <b>Rated operating distance <math>S_n</math></b>       | 4 mm                        |
| Mounting mode                                          | non-flush                   |
| Hysteresis (switching distance)                        | 3... 15 %                   |
| Min. repeat accuracy                                   | $\leq 2$ %                  |
| Temperature drift                                      | $\leq \pm 10$ %             |
| Operating temperature                                  | -25 ... + 70 °C             |
| <b>Rated operational voltage (DC) <math>U_B</math></b> | 10... 65 VDC                |
| Max. ripple                                            | $\leq 10$ % $U_{pp}$        |
| Rated operational current (DC) $I_e$                   | $\leq 200$ mA               |
| No-load current $I_0$                                  | $\leq 15$ mA                |
| Max. OFF-state current                                 | $\leq 0,1$ mA               |
| Max. switching frequency                               | $\leq 0,05$ kHz             |
| Rated insulation voltage                               | $\leq 0,5$ kV               |
| Output function                                        | 4-wire, normally open, PNP  |
| Short-circuit protection                               | yes, cyclic                 |
| Max. voltage drop at $I_e$                             | $\leq 1,8$ V                |
| Wire breakage / reverse polarity protection            | yes / complete              |
| Solenoid connection                                    | $\leq 2,5$ A / $\leq 250$ V |

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>Housing style</b> | 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     | $\leq 2,5$ mm <sup>2</sup>              |
| Vibration resistance | 55 Hz (1 mm)                            |
| Shock resistance     | 30 x g (11 ms)                          |
| Degree of protection | IP67                                    |

|                                    |                              |
|------------------------------------|------------------------------|
| <b>Switching status indication</b> | 2 x LED yellow / red         |
| Included with sensor               | 2 cable glands, 1 blind plug |

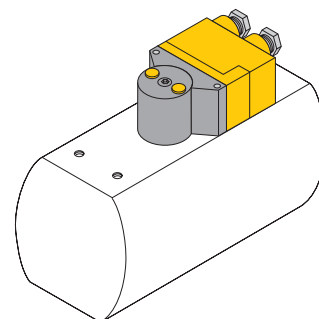
- dual sensor, housing style DSU35
- plastic, PP-GF30-VO
- two switching outputs for monitoring the position of rotary actuators
- mounting on all standard actuators without additional mounting hardware
- 2 x normally open, pnp output
- 4-wire DC, 10...65 VDC

### 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.



**inductive  
dual sensor for rotary actuators  
Ni4-DSU35TC-2AP4X2**

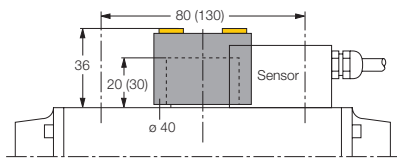
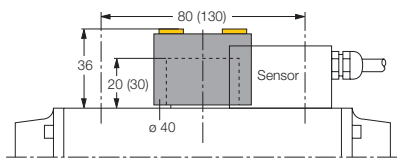
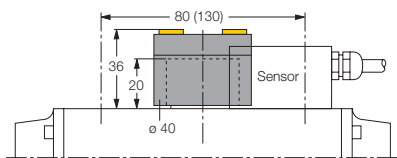
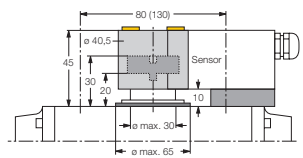
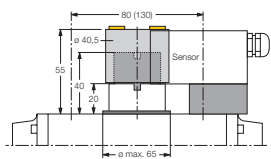
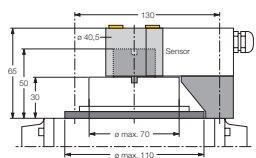
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**Mounting instructions**

see mounting accessories

## inductive dual sensor for rotary actuators Ni4-DSU35TC-2AP4X2

### 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                  |  |