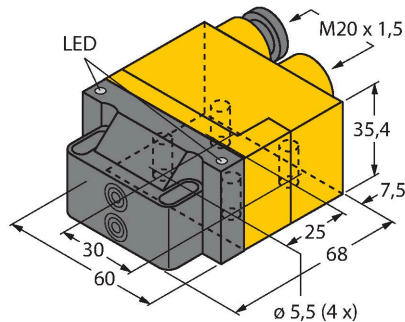


# NI4-DSU26TC-2AP4X2

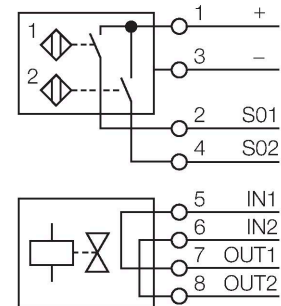
## Inductive Sensor – For Rotary Actuators



### Features

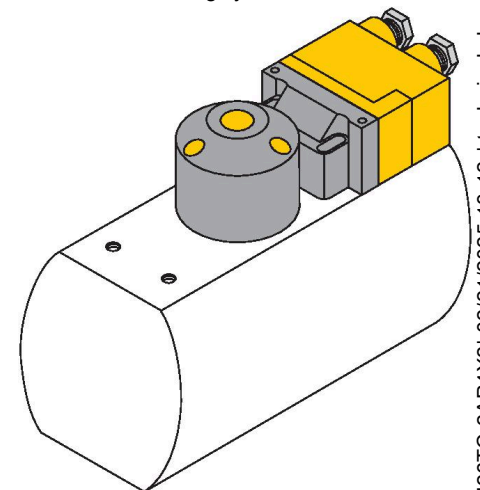
- Rectangular, housing DSU26
- Plastic, PP-GF30-VO
- Two outputs for monitoring the position of rotary actuators
- Mounting on all standard actuators
- 2 x NO contact, PNP output
- DC 4-wire, 10...65 VDC
- Terminal chamber

### 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.



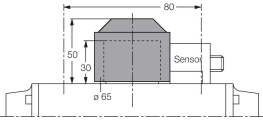
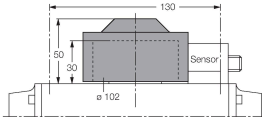
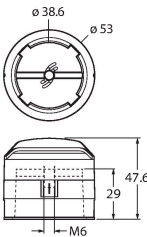
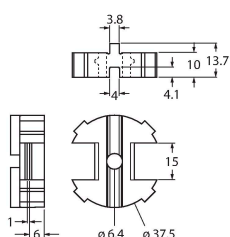
### Technical data

|                                        |                                                     |
|----------------------------------------|-----------------------------------------------------|
| Type                                   | NI4-DSU26TC-2AP4X2                                  |
| ID                                     | 1569905                                             |
| <b>General data</b>                    |                                                     |
| Rated switching distance               | 4 mm                                                |
| Mounting conditions                    | Non-flush                                           |
| Correction factors                     | St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4 |
| Repeat accuracy                        | ≤ 2 % of full scale                                 |
| Temperature drift                      | ≤ ±10 %                                             |
| Hysteresis                             | 3...15 %                                            |
| <b>Electrical data</b>                 |                                                     |
| Operating voltage $U_B$                | 10...65 VDC                                         |
| Ripple $U_{ss}$                        | ≤ 10 % $U_{Bmax}$                                   |
| DC rated operating current $I_o$       | ≤ 200 mA                                            |
| No-load current                        | ≤ 15 mA                                             |
| Residual current                       | ≤ 0.1 mA                                            |
| Isolation test voltage                 | 0.5 kV                                              |
| Short-circuit protection               | yes/Cyclic                                          |
| Voltage drop at $I_o$                  | ≤ 1.8 V                                             |
| Wire break/reverse polarity protection | yes/Complete                                        |
| Output function                        | 4-wire, NO contact, PNP                             |
| Valve control                          | ≤ 2,5 A / ≤ 250 V                                   |
| Switching frequency                    | 0.05 kHz                                            |

## Technical data

| Mechanical data          |                                            |
|--------------------------|--------------------------------------------|
| Design                   | Dual sensor for valve monitoring, DSU26    |
| Dimensions               | 68 x 60 x 35.4 mm                          |
| Housing material         | Plastic, PP-GF30, Yellow                   |
| Active area material     | Plastic, PP-GF30, black                    |
| Electrical connection    | Terminal chamber                           |
| Clamping ability         | ≤ 2.5 mm <sup>2</sup>                      |
| 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/red                       |
| Included in delivery     | 2 cable glands (black), 1 blanking plug    |

## Accessories

|                                                                                                              |                                                                                                                                                                                                                                                                                                 |                                                                                                               |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BTS-DSC26-EB2</b><br>  | <b>6900223</b><br>Actuation kit (puck) for dual sensors; end position damped; hole pattern on receptacle surface: 80 x 30 mm and 130 x 30 mm; connection shaft (shaft extension) height: 30 mm/Ø: max. 50 mm                                                                                    | <b>BTS-DSC26-EB3</b><br>  | <b>6900224</b><br>Actuation kit (puck) for dual sensors; end position damped; hole pattern on receptacle surface: 30 x 130 mm; connection shaft (shaft extension) height: 30 mm/Ø: max. 85 mm |
| <b>BTS-DSC26-EB20</b><br> | <b>100002102</b><br>Actuator (puck) for dual sensors; end position damped; hole pattern on flange: 80 x 30 mm and 130 x 30 mm; connection shaft (shaft extension) height: 30 mm/Ø: max. 35 mm; available as an option: Spacer BTS-DSC26-UR10 for 20-mm-high connection shafts (shaft extension) | <b>BTS-DSC26-UR10</b><br> | <b>100002103</b><br>Spacer for dual sensor actuation kit BTS-DSC26-EB20                                                                                                                       |