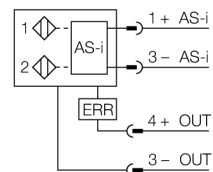


- Rectangular, housing DSU35
- Plastic, PP-GF30-VO
- Two outputs for monitoring the position of rotary actuators
- Mounting on all standard actuators
- AS-Interface V3.0 certified
- Valves can be connected
- 2 x M12 connector
- 18...33 VDC

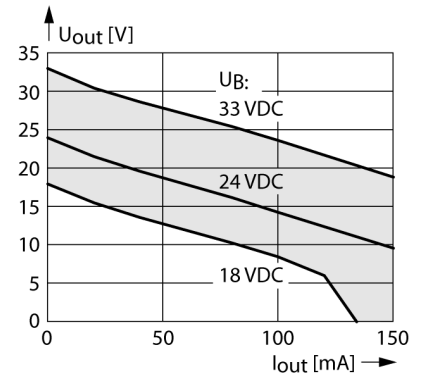
**Wiring Diagram**



**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.

**Derating Curve**



<b>Type designation</b>	NI4-DSU35-2ASI2X4-H1140
<b>Ident no.</b>	1902013
<b>Rated switching distance Sn</b>	4 mm
<b>Mounting conditions</b>	Non-flush
<b>Correction factors</b>	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
<b>Repeat accuracy</b>	≤ 2 % of full scale
<b>Temperature drift</b>	≤ ± 10 %
<b>Hysteresis</b>	3...15 %
<b>Ambient temperature</b>	-25...+70 °C
<b>Operating voltage</b>	18...33 VDC
<b>No-load current I<sub>0</sub></b>	≤ 40 mA
<b>Isolation test voltage</b>	≤ 0.5 kV
<b>Output function</b>	2-wire, 2- (NO contact, AS-i)
<b>I/O configuration (HEX) / ID code (HEX)</b>	IO code 7 / ID code A / ID2 code 7
<b>I/O matrix input</b>	0 = upper sensor S01 1 = lower sensor S02 2 = wire-break at output 3 = not used
<b>I/O matrix output</b>	0 = output 1 1 - 3 = not used
<b>Rotary actuators output current I<sub>out</sub></b>	mA grounding is not allowed, residual current ≤ 0.5 mA ≤ 80
<b>Short-circuit protection / output watchdog</b>	yes/ yes
<b>Wire breakage protection I<sub>out</sub></b>	≤ 0.1 mA
<b>Output LEDs</b>	yellow: output / red: Wire-break
<b>Switching frequency</b>	0.03 kHz
<b>Design</b>	Dual sensor for valve monitoring, DSU35
<b>Dimensions</b>	59 x 60 x 35.4 mm
<b>Housing material</b>	Plastic, PP-GF30, Yellow
<b>Active area material</b>	Plastic, PP-GF30, black
<b>Electrical connection</b>	Connector, M12 (1)
<b>Valve connection</b>	Connector, M12 x 1
<b>Vibration resistance</b>	55 Hz (1 mm)
<b>Shock resistance</b>	30 g (11 ms)
<b>Protection class</b>	IP67
<b>Switching state</b>	LED yellow / yellow



**Inductive dual sensor**  
**For rotary actuators**  
**NI4-DSU35-2ASI2X4-H1140**

**TURCK**

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Automation

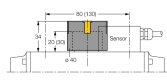
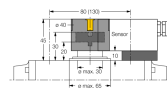
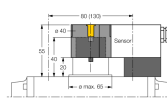
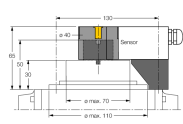
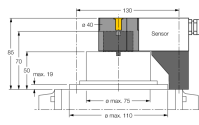


**Inductive dual sensor**  
**For rotary actuators**  
**NI4-DSU35-2ASI2X4-H1140**

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**Accessories**

Type code	Ident no.	Description	
BTS-DSU35-EB1	6900225	Actuation kit (puck) for dual sensors; end position damped; 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-Z01	6900229	Mounting kit dual sensors, for larger rotary actuators: Spacer plate and snap ring max. Ø 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 kit dual sensors, for larger 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 kit dual sensors, for larger 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	
BTS-DSU35-Z07	6900403	Mounting kit dual sensors, for larger rotary actuators: Ø disc and snap ring max.110 mm; hole pattern on flange surface 30 x 130 mm; connection shaft (shaft extension) height 50 mm / Ø max. 75 mm	

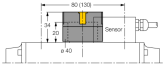


**Inductive dual sensor**  
**For rotary actuators**  
**NI4-DSU35-2ASI2X4-H1140**

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**Accessories**

Type code	Ident no.	Description	
BTS-DSU35-EBE3	6901070	Actuation kit (puck) for dual sensors; end position damped; "open" and "closed" switchpoint adjustable; 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-EU2	6900455	Actuation kit (puck) for dual sensors; end position undamped for clockwise and counter-clockwise drives; hole pattern on flange surface 80 x 30 mm and 130 x 30 mm; connection shaft (shaft stud) height 20 (30) mm / Ø max. 30 mm	