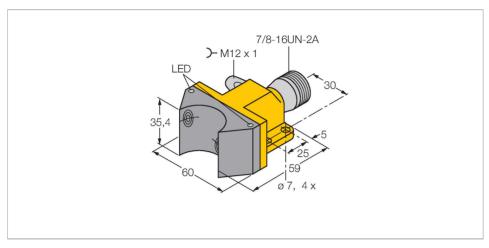


NI4-DSU35-2AP4X2-B1160-FKE4.5 Inductive Sensor – For Rotary Actuators



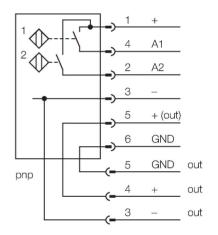
Technical data

Туре	NI4-DSU35-2AP4X2-B1160-FKE4.5
ID	1569923
General data	
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	315 %
Electrical data	
Operating voltage U _B	1065 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 _e	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	6-wire, NO contact, PNP
Output voltage	U _B - 0 V, PNP
Short-circuit protection / output watchdog	no / no
Switching frequency	0.05 kHz

Features

- Rectangular, housing DSU35
- Plastic, PP-GF30-VO
- ■Two outputs for monitoring the position of rotary actuators
- All metal housing parts are made of stainless steel
- Mounting on all standard actuators
- ■Valves can be connected
- ■2 x NO contact, PNP output
- ■DC 6-wire, 10...65 VDC
- ■7/8" male connector

Wiring diagram



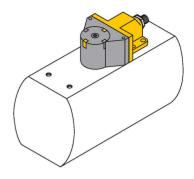
Functional principle

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.



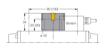
Technical data

Mechanical data	
Design	Dual sensor for valve monitoring, DSU35
Dimensions	59 x 60 x 35.4 mm
Housing material	Plastic, PP-GF30, Yellow
Active area material	Plastic, PP-GF30, black
Plug adapter	metal, 1.4401 (AISI 316)
Max. tightening torque of housing nut	3 Nm
Electrical connection	Connector, 7/8"
Valve connection	Connector, M12 x 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/red



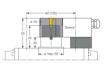
Accessories

BTS-DSU35-EB1 6900225



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: 20 mm (30 mm)/Ø: max. 30 mm

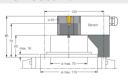
BTS-DSU35-Z02



Mounting kit for dual sensors for larger rotary actuators; Ø spacer plate and snap ring: max. 65 mm; hole pattern on receptacle surface: 30 x 80 mm (30 x 130 mm); connection shaft (shaft extension) height: 20 mm (30 mm)/Ø: max. 40 mm

6900230

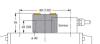
BTS-DSU35-Z07



6900403 Mounting kit for dual sensors for larger rotary actuators; Ø spacer plate and snap ring: max. 110 mm; hole

pattern on receptacle surface: 30 x 130 mm; connection shaft (shaft extension) height: 50 mm/Ø: max. 75 mm

BTS-DSU35-EU2



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

6900455

BTS-DSU35-Z01



Mounting kit for dual sensors for larger rotary actuators; Ø spacer plate and snap ring: max. 65 mm; hole pattern on receptacle surface: 30 x 80 mm (30 x 130 mm); connection shaft (shaft extension) height: 20 mm/Ø: max. 30 mm

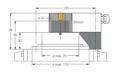
6900229

6900231

6901070

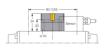
6900402

BTS-DSU35-Z03



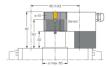
Mounting kit for dual sensors for larger rotary actuators; Ø spacer plate and snap ring: max. 110 mm; hole pattern on receptacle surface: 30 x 130 mm; connection shaft (shaft extension) height: 30 mm/Ø: max. 70 mm

BTS-DSU35-EBE3



Actuation kit (puck) for dual sensors; end position damped; "open" and "closed" switchpoint adjustable; hole pattern on receptacle surface: 80 x 30 mm and 130 x 30 mm; connection shaft (shaft extension) height: 20 mm/ Ø: max. 30 mm

BTS-DSU35-Z06



Mounting kit for dual sensors for larger rotary actuators; Ø spacer plate and snap ring: max. 65 mm; hole pattern on receptacle surface: 30 x 80 mm (30 x 130 mm); connection

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6900287

(shaft stud) height 20 (30) mm / \varnothing max. 30 mm

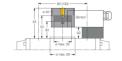
max. 30 mm BTS-DSU35-Z04 6900286

90 (150) 9

Mounting kit for dual sensors for larger rotary actuators; Ø spacer plate and snap ring: max. 65 mm; hole pattern on receptacle surface: 30 x 80 mm (30 x 130 mm); connection shaft (shaft extension) height: 30 mm/Ø: max. 30 mm

shaft (shaft extension) height: 30 mm/ Ø: max. 40 mm

BTS-DSU35-Z05



Mounting kit for dual sensors for larger rotary actuators; Ø spacer plate and snap ring: max. 65 mm; hole pattern on receptacle surface: 30 x 80 mm (30 x 130 mm); connection shaft (shaft extension) height: 30 mm/Ø: max. 30 mm