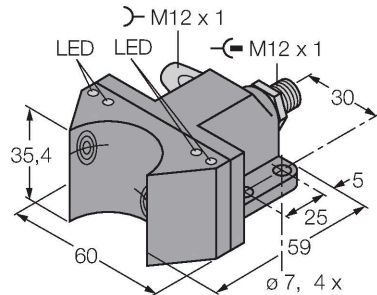


NI4-DSU35-2ASIX4-H1140/S930

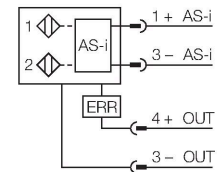
Inductive Sensor – For Rotary Actuators



Features

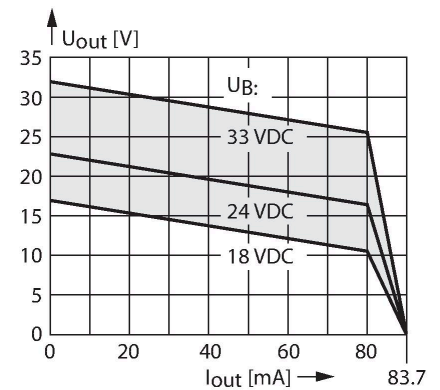
- Rectangular, housing DSU35
- Plastic, PP-GF30-VO
- Two outputs for monitoring the position of rotary actuators
- Mounting on all standard actuators
- Valves can be connected
- AS-Interface, 18...33 VDC
- M12 x 1 male connector

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.



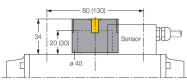
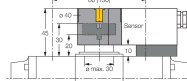
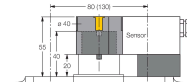
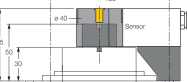
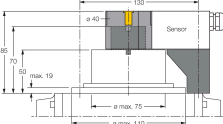
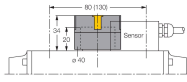
Technical data

Type	NI4-DSU35-2ASIX4-H1140/S930
ID	1902002
Remark to product	black housing
Special version	S930 Corresponds to: Except for transparent housing parts, all other plastic parts are black
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	3...15 %
Electrical data	
Operating voltage U_b	18...33 VDC
No-load current	≤ 35 mA
Isolation test voltage	0.5 kV
Communication protocol	AS-Interface
Output function	2-wire, NO contact
I/O configuration (HEX) / ID code (HEX)	S-7 / F
I/O matrix input	0 = upper sensor S01
	1 = lower sensor S02
	2 = wire-break at output
	3 = not used

Technical data

I/O matrix output	0 = output 1 1 - 3 = not used
Rotary actuators output current	≤ 80 mA, grounding is not allowed, residual current ≤ 0.5 mA
Short-circuit protection / output watchdog	yes / yes
Wire breakage protection	≤ 0.1 mA
Output LEDs	yellow: output / red: Wire-break
Switching frequency	0.03 kHz
Mechanical data	
Design	Dual sensor for valve monitoring, DSU35
Dimensions	59 x 60 x 35.4 mm
Housing material	Plastic, PP-GF30, Black
Active area material	Plastic, PP-GF30, black
Max. tightening torque of housing nut	3 Nm
Electrical connection	Connector, M12 × 1
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
Switching state	2 × LEDs, Yellow/yellow

Accessories

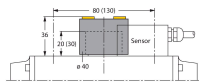
BTS-DSU35-EB1	6900225	 Actuation kit (puck) for dual sensors; end position damped; hole pattern on receptacle surface: 80 x 30 mm and 130 x 30 mm; connection shaft (shaft extension) height: 20 mm (30 mm)/Ø: max. 30 mm	BTS-DSU35-Z01	6900229	 Mounting kit for dual sensors for larger rotary actuators; Ø 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
BTS-DSU35-Z02	6900230	 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	BTS-DSU35-Z03	6900231	 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-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	BTS-DSU35-EBE3	6901070	 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

extension) height: 50 mm/Ø: max.
75 mm

shaft (shaft extension) height: 20 mm/
Ø: max. 30 mm

BTS-DSU35-EU2

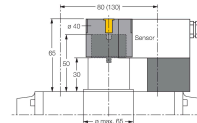
6900455



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

BTS-DSU35-Z06

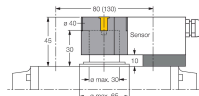
6900402



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. 40 mm

BTS-DSU35-Z04

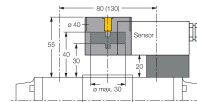
6900286



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

BTS-DSU35-Z05

6900287



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