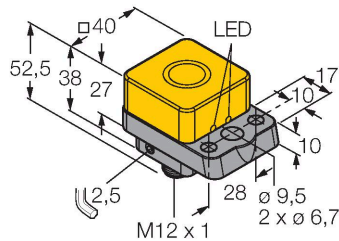


NI22U-Q40-AP6X2-H1141

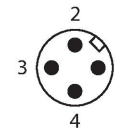
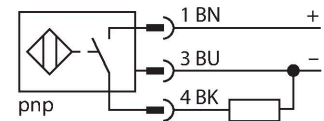
Inductive Sensor – For Parts Position Control in Die Press Tools



Features

- Rectangular, height 38 mm
- Active face on top
- Plastic, PBT-GF30-V0
- Factor 1 for all metals
- Resistant to magnetic fields
- Extended temperature range
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 male connector

Wiring diagram



Technical data

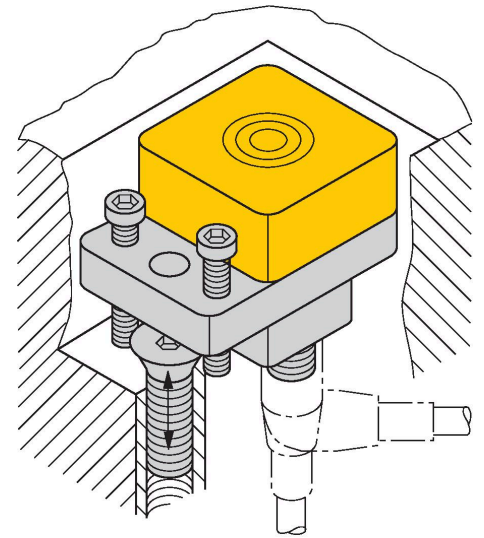
Type	NI22U-Q40-AP6X2-H1141
ID	4690229
General data	
Rated switching distance	22 mm
Mounting conditions	Non-flush, recessible in press tool
Secured operating distance	$\leq (0.81 \times S_n)$ mm
Repeat accuracy	$\leq 2 \%$ of full scale
Temperature drift	$\leq \pm 10 \%$
Hysteresis	3...15 %
Electrical data	
Operating voltage U_B	10...30 VDC
Ripple U_{ss}	$\leq 10 \%$ 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	3-wire, NO contact, PNP
DC field stability	300 mT
AC field stability	300 mT _{ss}
Insulation class	□
Switching frequency	0.25 kHz

Functional principle

The Q40 series is specially designed for position control of pieces in large pressing tools. The height of the sensor can be altered with the screw. Recessed mounting protects the sensor against mechanical damage.

Technical data

Mechanical data	
Design	Rectangular, Q40
Dimensions	67 x 40 x 52.5 mm
Housing material	Plastic, PBT-GF30-V0
Active area material	PBT-GF30-V0
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	0...+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Switching state	LED, Yellow



Mounting instructions

Mounting instructions/Description

Distance D 240 mm

Non-flush mounting $S_r = 22$ mm

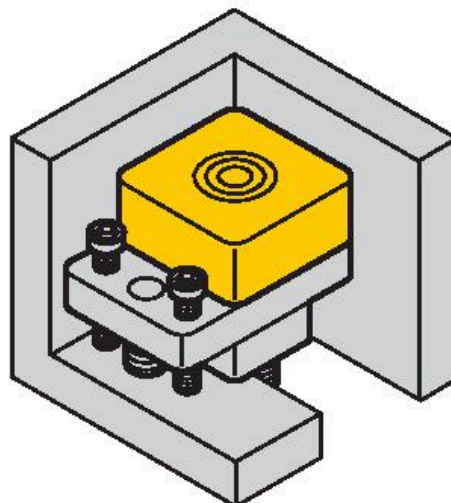
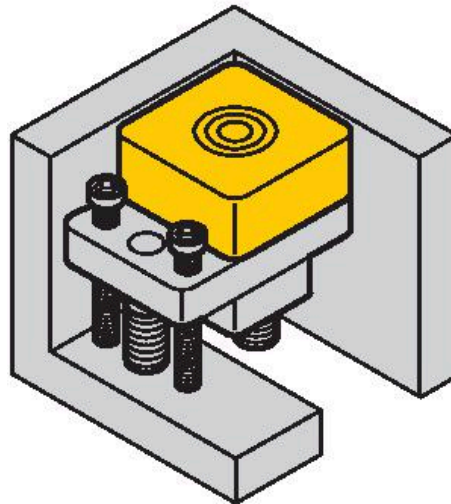
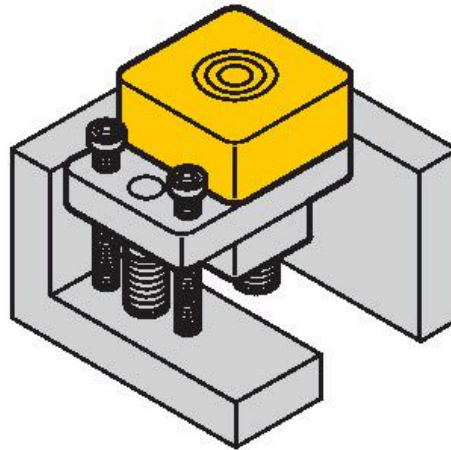
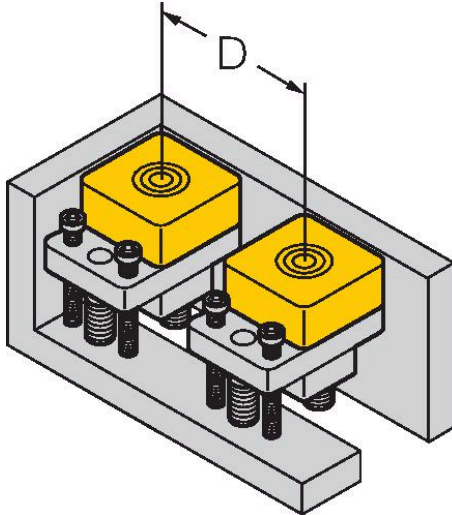
Screw in the base such that the switching distance can be reduced to 10 mm.

Recessed mounting $S_r = 19$ mm
1 mm beneath the tool contour

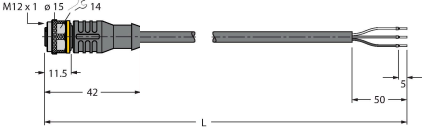
Screw in the base such that the switching distance can be reduced to 10 mm.

Recessed mounting $S_r = 21$ mm
11 mm beneath the tool contour

Use the screws to modify the mounting depth.



Wiring accessories

Dimension drawing	Type	ID	
	RKC4T-2/TEL	6625010	Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, jacket material: PVC, black; cULus approval