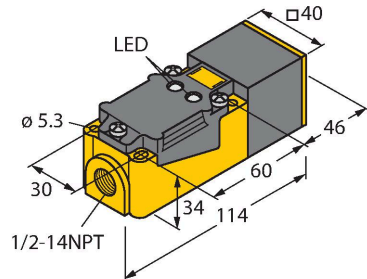


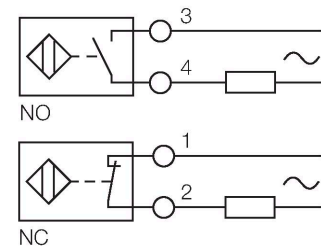
NI30-CP40-FZ3X2/S110-S10 Inductive Sensor – With Switch-Off Delay



Features

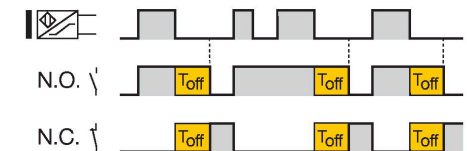
- Rectangular, height 40 mm
- Variable orientation of active face in 9 directions
- Plastic, PBT-GF30-V0
- Jam control and anti-collision
- Adjustable runtime
- Thread, 1/2-14 NPT
- AC 2-wire, 20...250 VAC
- NC/NO programmable
- Terminal chamber

Wiring diagram



Functional principle

Inductive sensors with integrated time delay work according to the same function principle as standard inductive sensors. The output of this version is additionally equipped with an adjustable timer function. The timer function can be re-triggered, i.e. attenuating and unattenuating during the runtime activates the time delay again. The time is adjusted via a potentiometer in the sensor head.



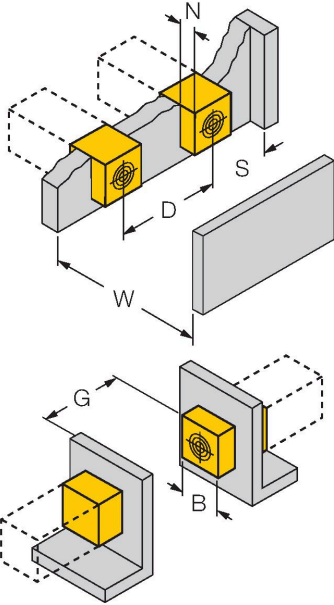
Technical data

Type	NI30-CP40-FZ3X2/S110-S10
ID	13744
Special version	S110-S10 corresponds to: Mounting base with 1/2-14NPT thread Configurable switch-off delay
General data	
Rated switching distance	30 mm
Mounting conditions	Non-flush
Secured operating distance	$\leq (0.81 \times S_n) \text{ mm}$
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	$\leq 2 \%$ of full scale
Hysteresis	3...15 %
Electrical data	
Operating voltage	20...250 VAC
AC rated operational current	$\leq 400 \text{ mA}$
Frequency	$\geq 50 \dots \leq 60 \text{ Hz}$
Residual current	$\leq 1.7 \text{ mA}$
Isolation test voltage	$\leq 1.5 \text{ kV}$
Surge current	$\leq 8 \text{ A}$ ($\leq 10 \text{ ms max. } 5 \text{ Hz}$)
Time delay	0.5 - 20 s
Voltage drop at I_o	$\leq 6 \text{ V}$
Output function	2-wire, Connection programmable, 2-wire
Smallest operating current	$\geq 3 \text{ mA}$
Switching frequency	0.02 kHz

Technical data

Mechanical data	
Design	Rectangular, CP40
Dimensions	114 x 40 x 40 mm
Housing material	Plastic, PBT-GF30-V0, Black
Active area material	Plastic, PBT-GF30-V0, yellow
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
Environmental conditions	
Ambient temperature	-25...+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Red

Mounting instructions

Mounting instructions/Description	
	Distance D
	3 x B
	Distance W
	3 x Sn
	Distance S
	1.5 x B
	Distance G
	6 x Sn
	Distance N
	1 x B
	Width active area B
	40 mm

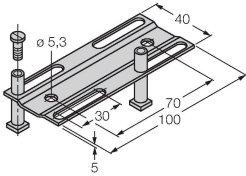
NI30-CP40-FZ3X2/S110-S10| 11/07/2023 15-08 | technical changes reserved

Accessories

JS025/037

69429

Adjusting bar for rectangular housings
CK/CP40; material: VA 1.4301



BSS-CP40

6901318

Mounting clamp for rectangular
housings 40 x 40 mm; material:
Polypropylene

