

extract from our online catalogue:

nero-35/CD

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nero

Ultrasonic proximity switch nero in M18 plastic sleeve with 4 detection ranges

Highlights

Basics

- > Variant with 90° angled head
- > UL Listed to Canadian and US safety standards
- > 1 switching output > pnp or npn basis
- > Analogue output 4–20 mA or 0–10 V
- > 4 detection ranges with a measurement range of 20 mm to 1.3 m
- > microsonic-Teach-in
- > 0.2 mm resolution
- > 10–30 V operating voltage

nero ultrasonic proximity switches

are available in a M18 plastic sleeve. The ultrasonic proximity switches detect contactless and reliable objects with four detection ranges from 20 mm to 1.3 m.

Two output stages

are available for 4 detection ranges:



1 switching output with pnp or npn switching technology



1 analogue output 4–20 mA or 0–10 V

Sensors with switching output have three operating modes:

- Single switching point
- Two-way reflective barrier
- Window mode

Teach-in of a single switching point

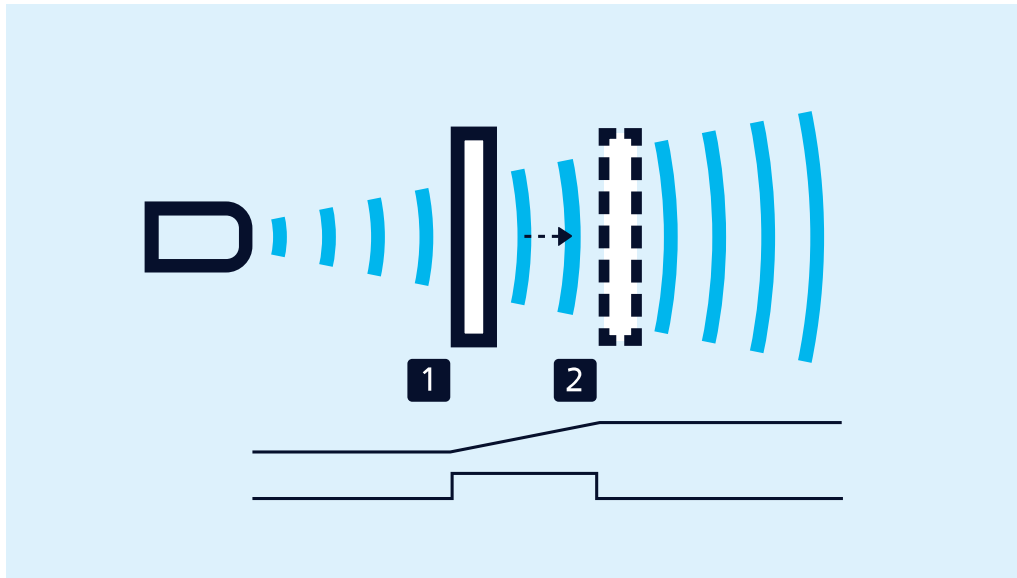
- Place object to be detected (1) at the desired distance
- Apply $+U_B$ to pin 2 for about 3 seconds
- Then apply $+U_B$ to pin 2 again for about 1 second



Teach-in of a two-way reflective barrier

with a fixed reflector

- Apply $+U_B$ to pin 2 for about 3 seconds
- Then apply $+U_B$ to pin 2 again for about 10 seconds



Teach-in of an analogue characteristic or a window with two switching points

For configuration of a window

- Place object at the near edge of the window (1)
- Apply $+U_B$ to pin 2 for about 3 seconds
- Then move the object to the far edge of the window (2)
- Then apply $+U_B$ to pin 2 again for about 1 second

NCC/NOC

and rising/falling analogue characteristic curve can also be set via pin 2.

One green and one yellow LED

indicate the state of the output and support microsonic Teach-in.

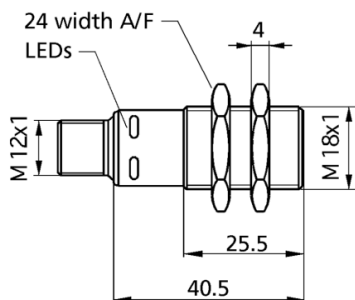
You have special requirements?

Nothing as simple as that.

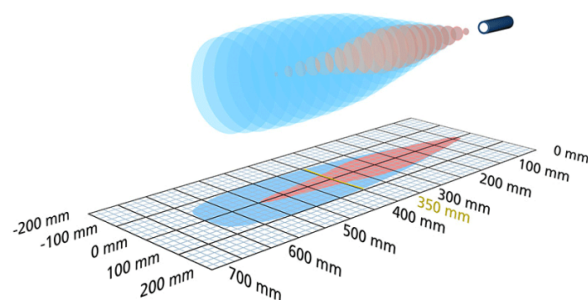
With us, you can easily find an individual solution. Let us talk about your application: +49 231 97 51 51-82.

nero-35/CD

scale drawing



detection zone



design	cylindrical M18
operating mode	proximity switch/reflective mode
	reflective barrier
	window mode
particularities	UL Listed

Ultrasonic-Specific

means of measurement	echo propagation time measurement
transducer frequency	400 kHz
blind zone	65 mm
operating range	350 mm
max. range	600 mm
resolution	0.20 mm
reproducibility	± 0.15 %
accuracy	temperature drift 0.17 %/K

Electrical Data

operating voltage U _B	10 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
no-load current consumption	≤ 40 mA
type of connection	4-pin M12 initiator plug

outputs

output 1	switching output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B = 2V$)
switching hysteresis	5 mm
switching frequency	12 Hz
response delay	64 ms
delay prior to availability	< 300 ms

Inputs

input 1	Teach-in input
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housing

material	PBT
ultrasonic transducer	polyurethane foam, epoxy resin with glass contents
class of protection to EN 60529	IP 67
operating temperature	-25°C to +70°C
storage temperature	-40°C to +85°C
weight	15 g
further versions	nero-35/WK/CD
further versions	90° angular head

Technical Features/Characteristics

temperature compensation	no
controls	control input
scope for settings	Teach-in
synchronization	no
multiplex	no
indicators	1 x LED green: working, 1 x LED yellow: switch status

Accessories

deployable accessory	BF-18 KST4A-2/M12 KST4A-5/M12 KST4G-2/M12 KST4G-5/M12
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pin assignment

