Product description The nero sensor offers a non-contact measurement of the distance to an

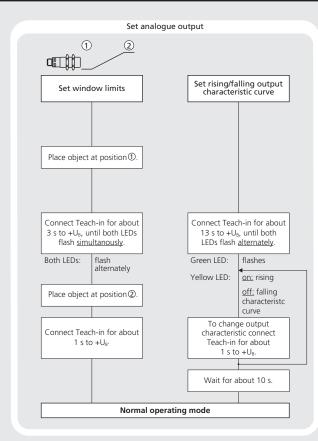


Operating Manual

Ultrasonic proximity switch with one analogue output

nero-15/Cl	nero-15/CU
nero-25/Cl	nero-25/CU
nero-35/Cl	nero-35/CU
nero-100/Cl	nero-100/CU
nero-15/WK/Cl	nero-15/WK/CU
nero-25/WK/Cl	nero-25/WK/CU
nero-35/WK/CI	nero-35/WK/CU
nero-100/WK/CI	nero-100/WK/CU

Diagram 1: Set sensor parameters via Teach-in procedure



object that has to be positioned within

the sensor's detection zone. Depen-

ding on the set window limits, a dis-

output.

tance-proportional analogue signal is

The window limits of the analogue

output and its characteristic can be

adjusted with the Teach-in procedure.

Two LEDs indicate operation and the

state of the analogue output.

Safety instructions

- Read the operating manual prior to start-up.
- Connection, installation and adjustments may only be carried out by qualified staff.
- No safety component in accordance with the EU Machine Directive, use in the area of personal and machine protection not permitted.

Use for intended purpose only nero ultrasonic sensors are used for non-contact detection of objects.

Installation

- → Mount the sensor at the place of fitting.
- → Connect a connection cable to the M12 device plug, see Fig. 1.

The assembly distances shown in Fig. 2 for two or more sensors should not be fallen below in order to avoid mutual interference.

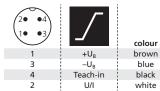


Fig. 1: Pin assignment with view onto sensor plug and colour coding of the microsonic connection cable Start-up

- → Connect the power supply.
- → Carry out sensor adjustment in accordance with Diagram 1.

Factory setting

nero-sensors are delivered factory made with the following settings:

- Rising analogue characteristic curve between the blind zone and the operating range
- »Teach-in« active

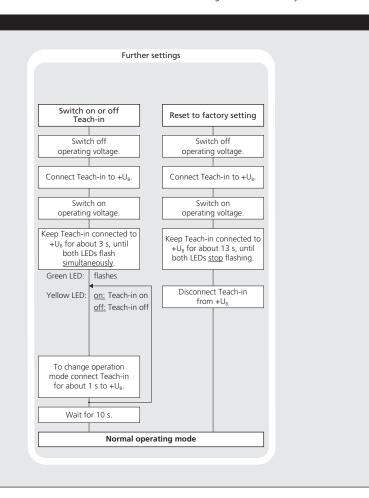
	₽		
	Ď	D↔Q	
nero-15	≥0.25 m	≥1.30 m	
nero-25	≥0.35 m	≥2.50 m	
nero-35	≥0.40 m	≥2.50 m	
nero-100	≥0.70 m	≥4.00 m	
Fig. 2: Minimal assembly distances			

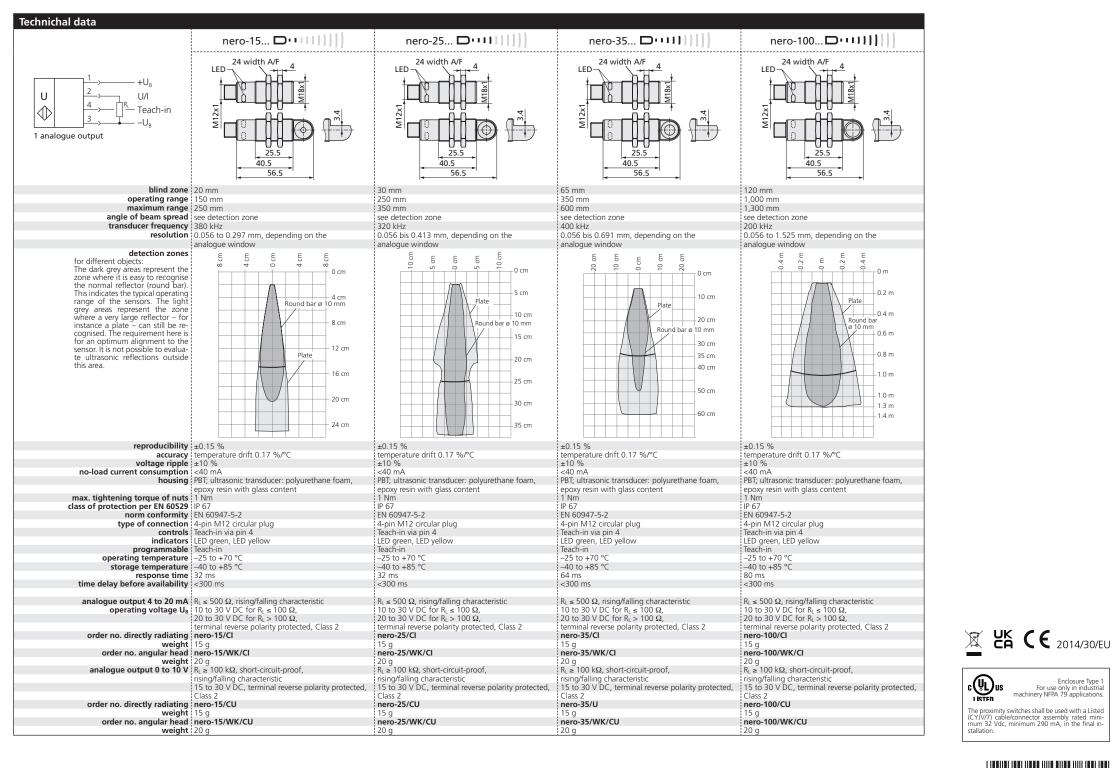
microsonic sensors are maintenancefree. In case of excess caked-on dirt we recommend cleaning the white sensor surface.

Notes

Maintenance

- The sensors of the nero family have a blind zone, within which a distance measurement is not possible.
- In the normal operating mode, an illuminated yellow LED signals the object is within the adjusted window limits.
- The sensor can be reset to its factory setting (see »Further settings«, Diagram 1).







Enclosure Type 1 For use only in industrial machinery NFPA 79 applications.

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