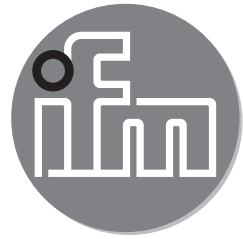


ifm electronic



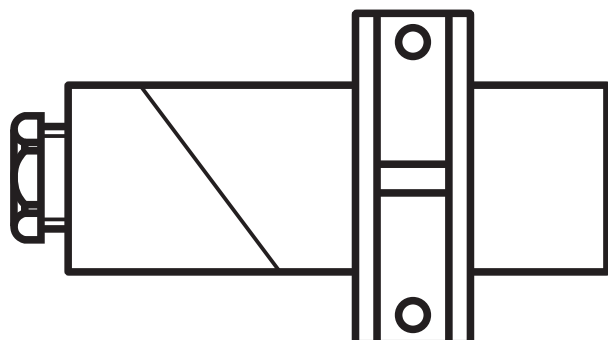
Installation Instructions
Inductive sensor

efector100[®]

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Function and features

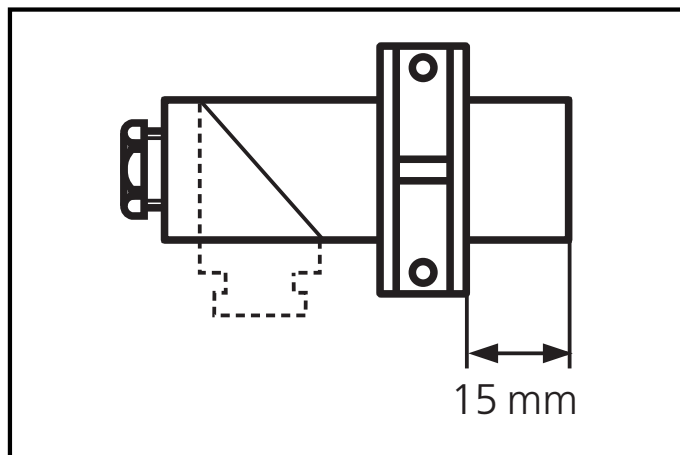
This sensor detects metals without contact and indicates their presence by providing a switched signal. Nominal sensing range (S_n) can be seen in the type designation on the type label on the unit; operating distance (S_a) $0 \dots 0.81 \times S_n$; (values based on standard measurement with mild steel; a shorter sensing range for other metals).

Installation

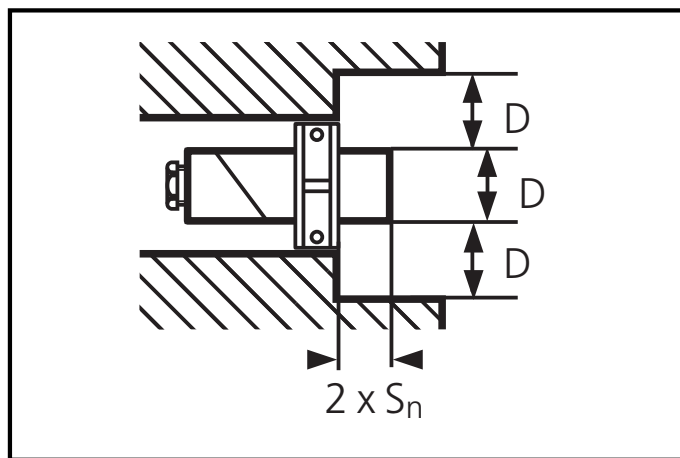
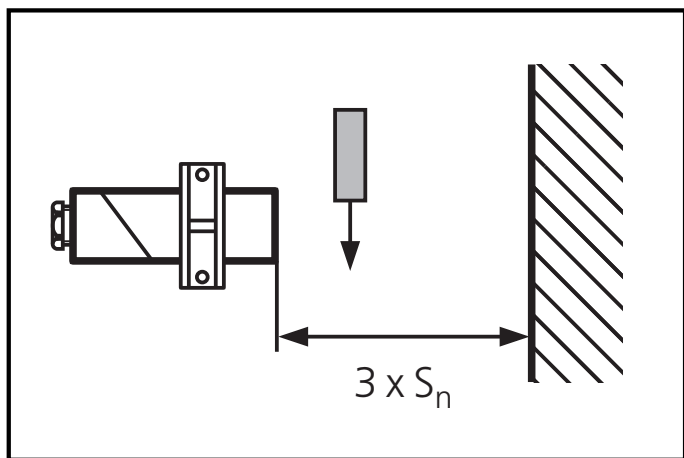
Mount the sensor by means of the mounting bracket provided.

Distance between sensing face and bracket 15 mm.

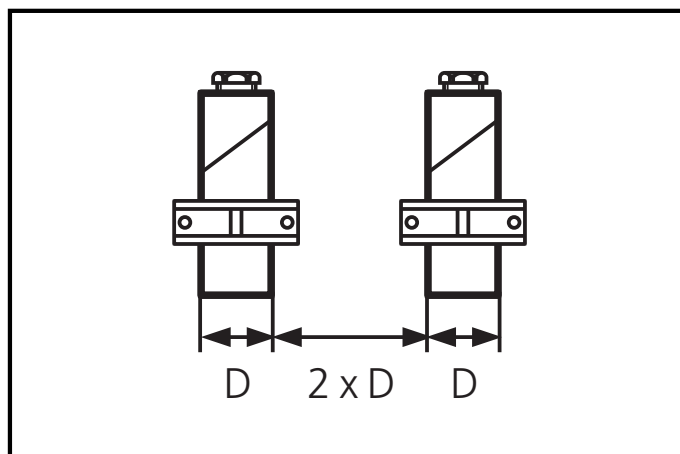
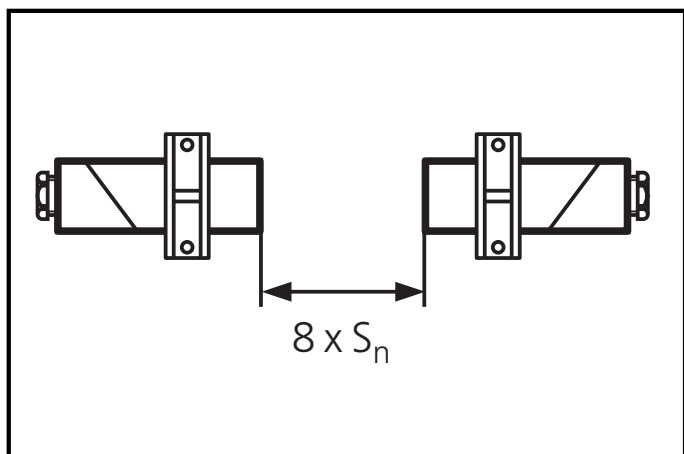
Non-flush installation.



Open space around the sensing face when mounted in metal:



Minimum distance when several switches of the same type are mounted:



Electrical connection



Disconnect power before connecting the sensor. Connection strictly to the indications on the type label.

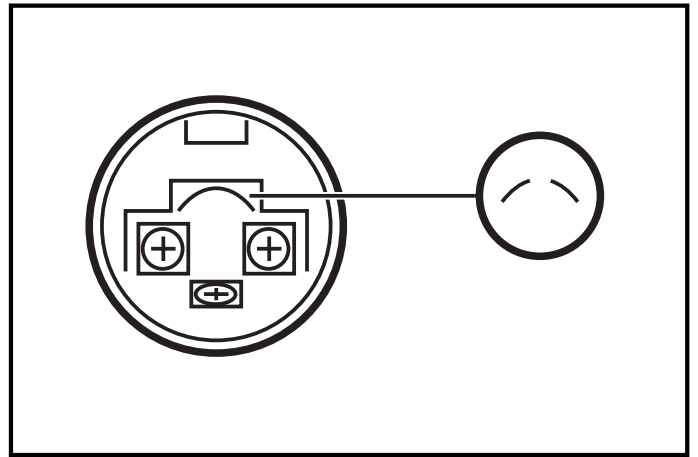
Note: insert a miniature fuse according to the technical data sheet, if specified.

Recommendation: check the unit for reliable function after a short circuit.

Programming of the output function of 2-wire-DC types (quadronorm) by wiring:

- normally open: 1/3 = L+; 2/4 = L-
- normally closed: 2/4 = L+; 1/3 = L-

Programming of the output function of AC/DC types and of 3-wire-DC types:
These units are provided in N.O. function.
Open the wire link for programming the N.C. function.



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Operation

Check the safe functioning of the sensor. The LED is lit when the output is switched. The operation of the sensor is maintenance-free.

For perfect functioning make sure that:

- the sensing face and the open space are kept free of metal deposits and foreign bodies, particularly for installation with the sensing face facing upwards;
- EMC: The unit conforms to the requirements of EN 60947-5-2.

Scale drawing

Mounting clamp

