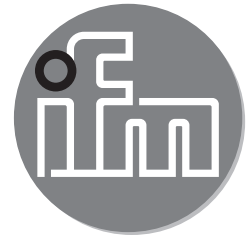


ifm electronic



Installation Instructions
Inductive sensor
with optical setting aid

UK

efector100[®]

701228 / 03 11 / 2007

Function and features

This inductive sensor detects metals without contact and indicates their presence by providing a switched signal.

The 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).

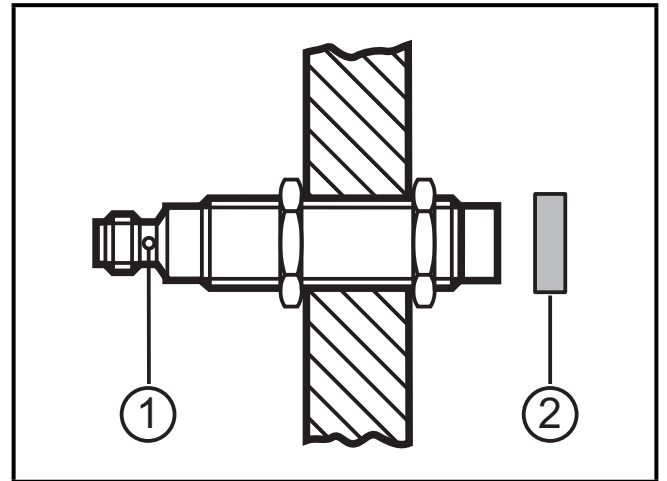
Electrical connection

Disconnect power before connecting the sensor. Connection strictly to the indications on the type label. The unit can be used as normally open (—) or as normally closed (—).

Installation

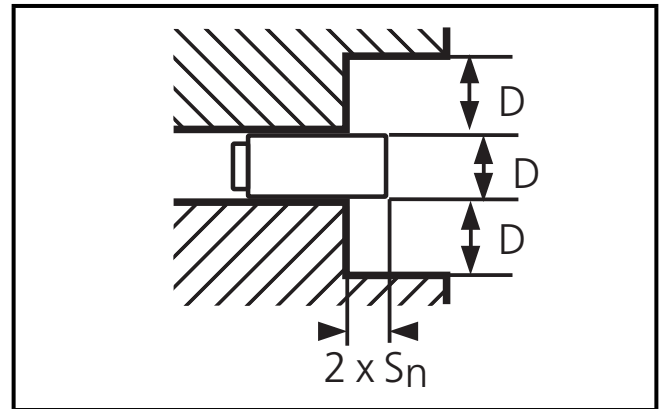
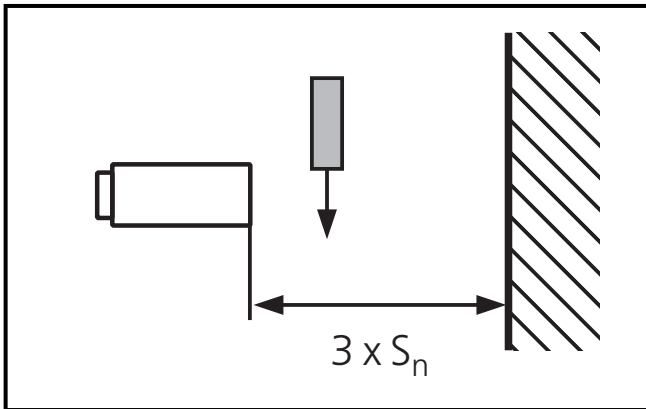
Mounting by means of a mounting device. Adjust the unit. Adjustment is correct when the red LED **does not** light. Secure by means of the nuts provided so that it cannot work loose.

Non-flush installation.

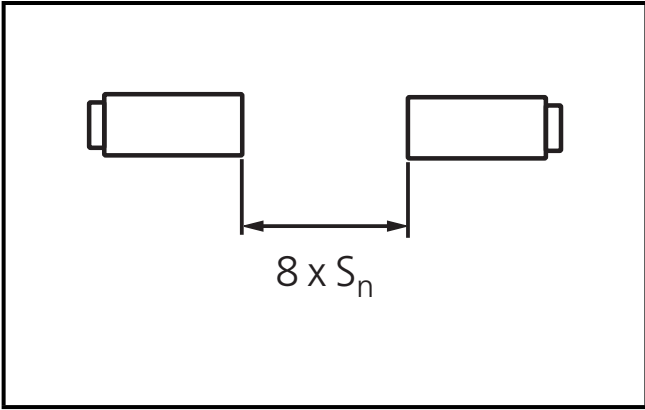
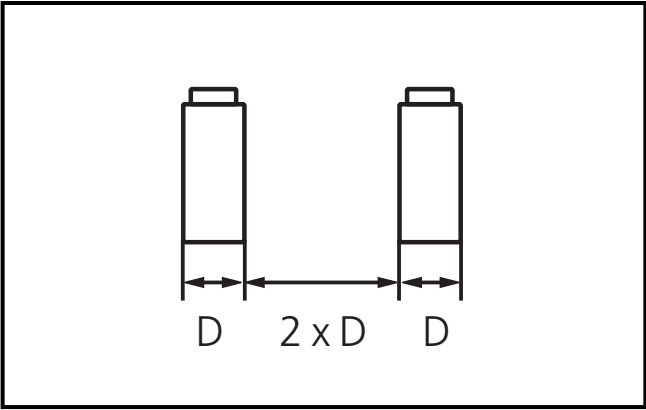


① LED yellow / red ② Target

Open space around the sensing face when mounted in metal:



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













UK

Operation

Check the safe functioning of the sensor. Display by LEDs:

- The yellow LED is lit when the output is switched.
- The red LED is lit in case of faulty adjustment.

	output function		
			
LED yellow	—		No object in the detection range.
LED red	—	—	
LED yellow		—	Safe detection of the object.
LED red	—	—	
LED yellow		—	Unsafe detection of the object (readjust the unit).
LED red			
LED yellow	—		Uncertain function: predamping of the unit by metal deposits or insufficient open space around the active face; (clean the active face or readjust the unit).
LED red			

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.