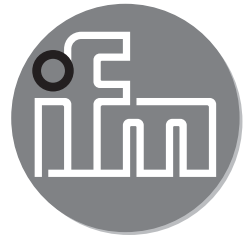


ifm electronic



Installation instructions  
Inductive sensor  
with analogue output

**efector100<sup>®</sup>**

**UK**

701938 / 00 09 / 2008

# Functions and features

Inductive sensors with analogue output determine without contact the distance between object and sensing face. For the operating range (s) see the label of the unit (values are to standard mild steel targets, for other metals correction factors apply).

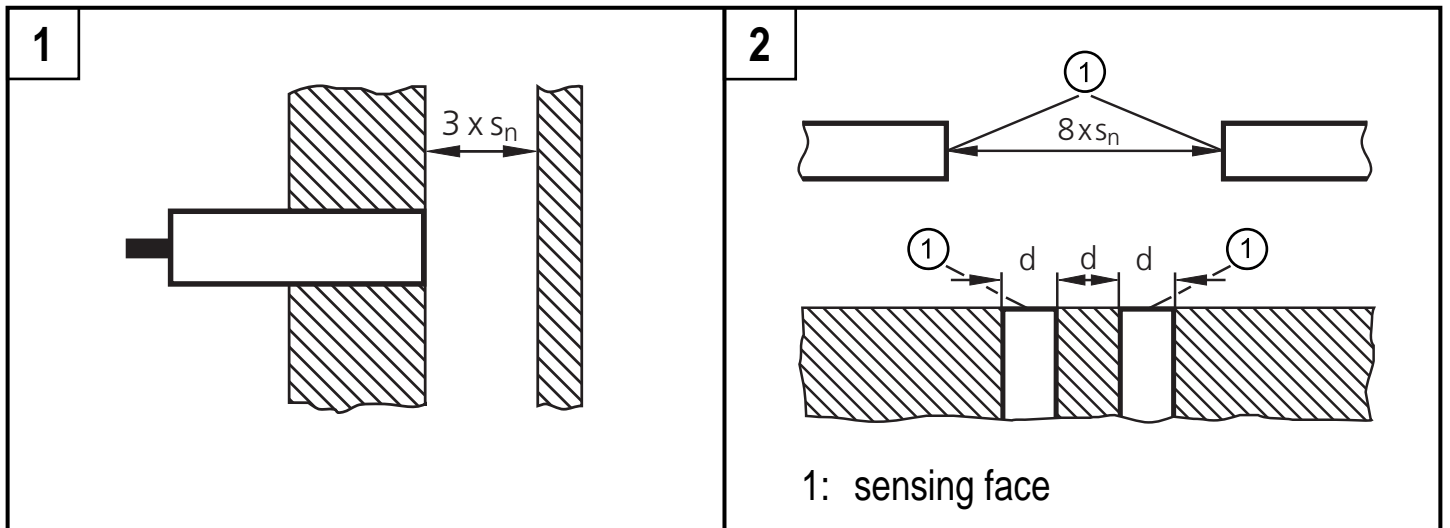
The analogue signal can be a voltage (0...10 V) or current (4...20 mA) depending on the type of unit.

## Mounting

### a) flush mounting

Free space at the sensing face when mounted in metal (figure 1).

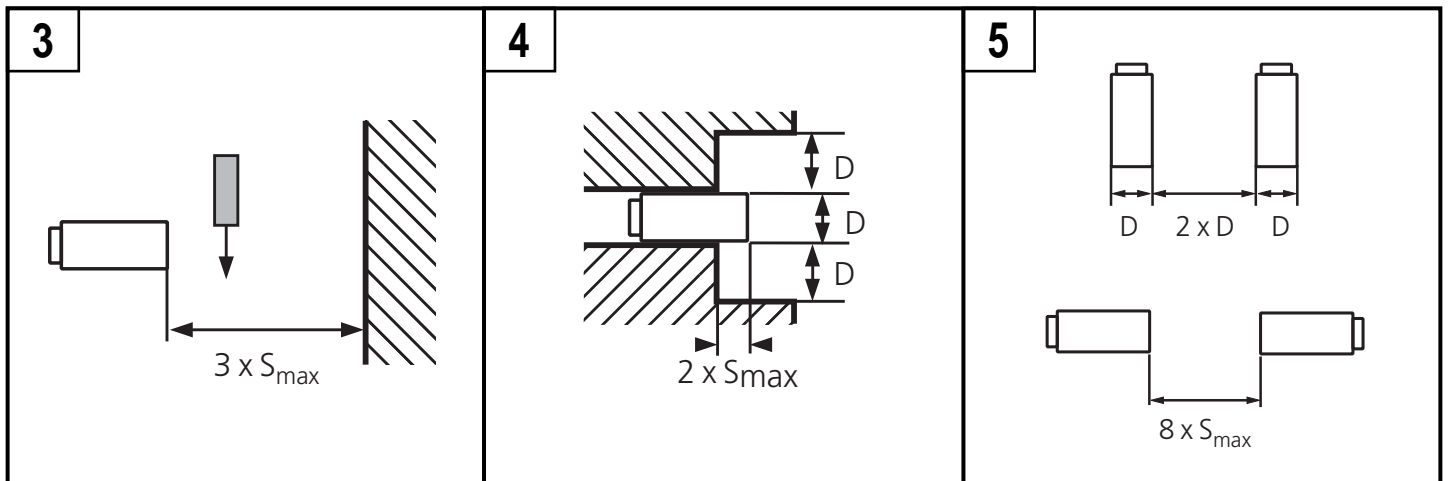
Minimum distances when mounting several switches of the same type (figure 2).



### b) non flush mounting

Free space at the sensing face when mounted in metal (figures 3 and 4).

Minimum distances when mounting several switches of the same type (figure 5).



# Electrical connection

The unit must be connected by an electrician.

The national and international regulations for the installation of electrical equipment must be adhered to.

Disconnect power. Connect the unit as indicated on the type label.

The load resistance must not be higher or lower than specified in the data sheet.

## Set-up / Operation

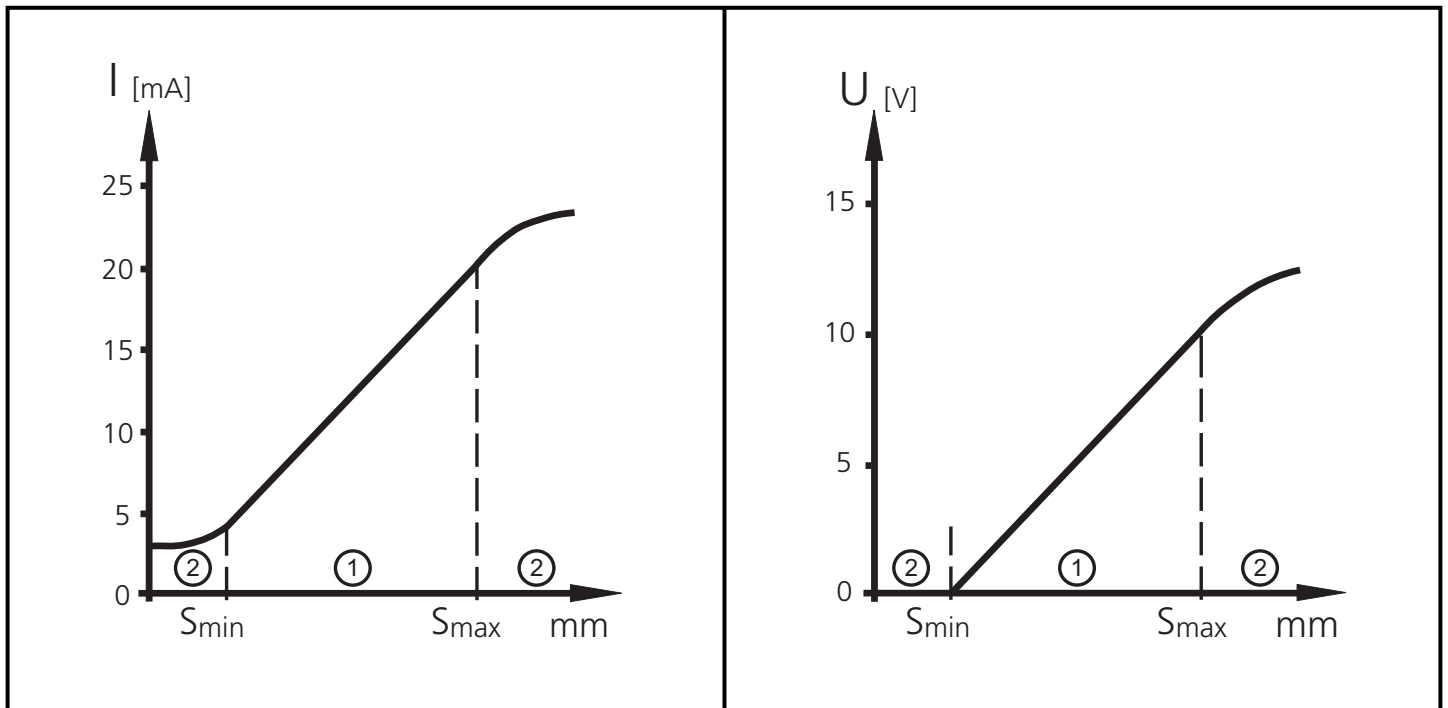
After installation and wiring check whether the unit operates correctly.

Approach the object and check the provided signal with the object being positioned at different distances.

The LED at the sensor is lit permanently when the object is in the operating range. The LED starts to flash outside the operating range.

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### Output characteristics (diagram)



1: Operating range (s) > LED is lit permanently

2: Warning / fault range > LED flashes

$S_{min}$  = start point of operating range

$S_{max}$  = end point of operating range