ifm electronic

Installation instructions
Compact speed monitor

ecomat200®

DIA

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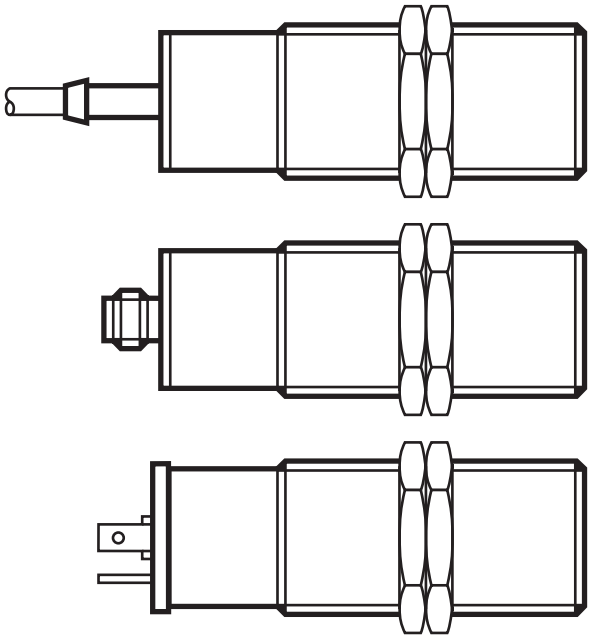

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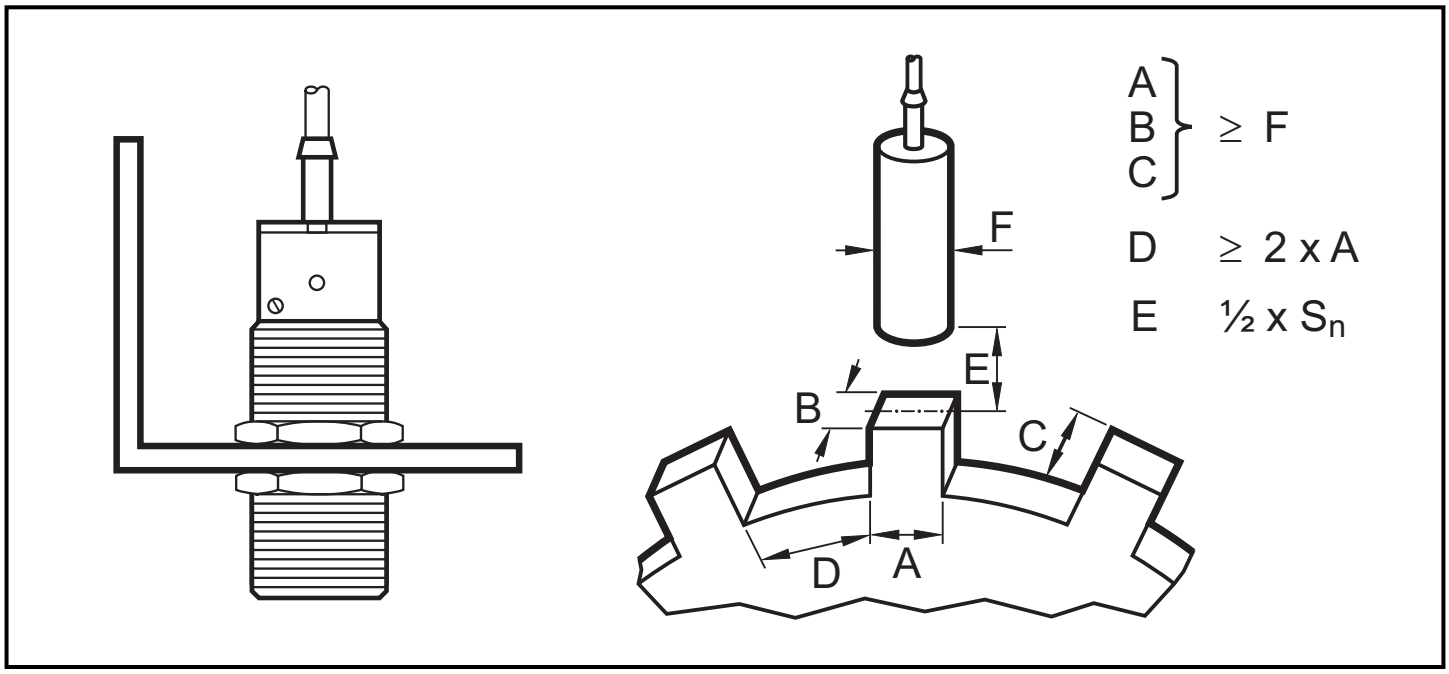
1 Functions and features

The Compact speed monitor detects without contact whether a minimum speed is reached and signals underspeed by means of a switching signal.
Nominal sensing range (Sn) 10 mm; Preset speed adjustable, see type label.

2 Installation



► Fix the unit by means of a mounting device and secure it by means of the nuts provided so that it cannot work loose. Flush installation.
► Adhere to the above dimensions to ensure a correct function.

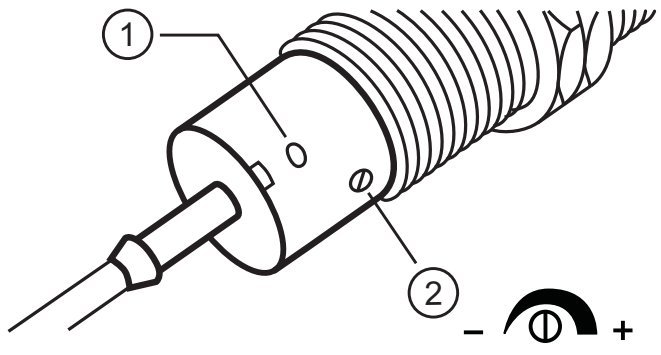
3 Electrical connection

► Disconnect power.
► Connect the unit according to the indications on the type label.

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

Recommendation: check the safe functioning of the unit after a short circuit.

4 Adjustment



1. LEDs
   Green LED: output switched (actual speed > preset speed)
   Yellow LED (optional for 2-wire AC/DC): sensor damped
2. multiturn potentiometer
   preset value

UK

► Keep the speed to be monitored in the plant on a constant level.
The yellow LED must flash (damping pulses are detected).

► Start the adjustment according to A or B when the start-up delay* (AÜ see type label) has elapsed.

A Green LED lit	**B** Green LED not lit
Turn the pot clockwise until the LED goes off.	Turn the pot slowly anticlockwise until the LED is lit.
Turn the pot slowly anticlockwise until the LED is let.	—

On delivery: pot at the right end stop (except DI5011 = approx. 30 pulses/min).

5 Operation

The operation is maintenance-free. Ensure the following for a correct function:

► Keep the sensing face and the open space free of metal deposits and foreign bodies.

► Do not operate units with high field intensity (e.g. walkie-talkies) at close range to the speed monitor.

*) The start-up delay (AÜ) suppresses an error signal as long as the machine is in the process of starting and has not yet reached its nominal speed. After application of the operating voltage the start-up delay is active only once.
If the drive is often turned on and off, couple the supply voltage of the drive and the monitor. By doing so, the start-up delay is active every time the drive is turned on.