ifm electronic

CE

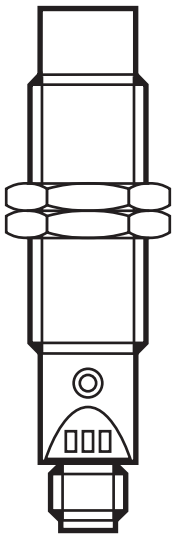
Installation instructions
Compact speed monitor M18

ecomat200®

DI602A

UK

706210 / 00 05 / 2012



1 Preliminary note

1.1 Symbols used

▶ Instruction

→ Cross-reference


Important note
Non-compliance can result in malfunctions or interference.


Information
Supplementary note

2 Safety instructions

Please adhere to the notes on safe use in hazardous areas: → operating instructions (Ex protection related part) for speed monitors according to EU directive 94/9/EC annex VIII (ATEX) group II, equipment category 3D.

If no operating instructions (Ex protection related part) or EC declaration of conformity is supplied with this product in the language of the EU user country, these can be requested from your dealer (see delivery note) or manufacturer (see cover sheet / back).

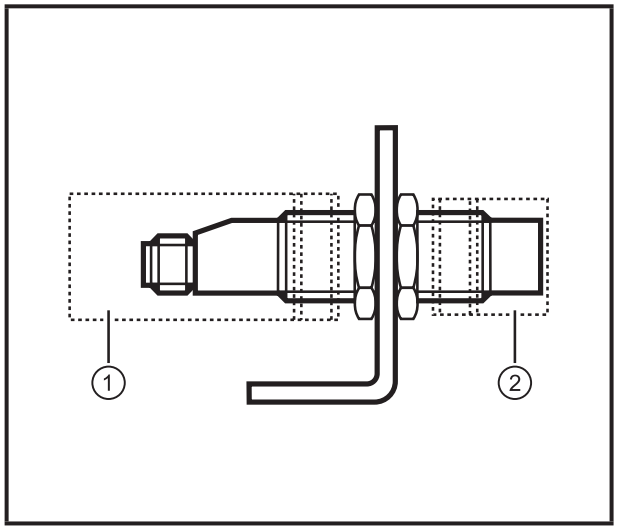
The unit must be connected by a qualified electrician. Observe the national and international regulations for the installation of electrical equipment.

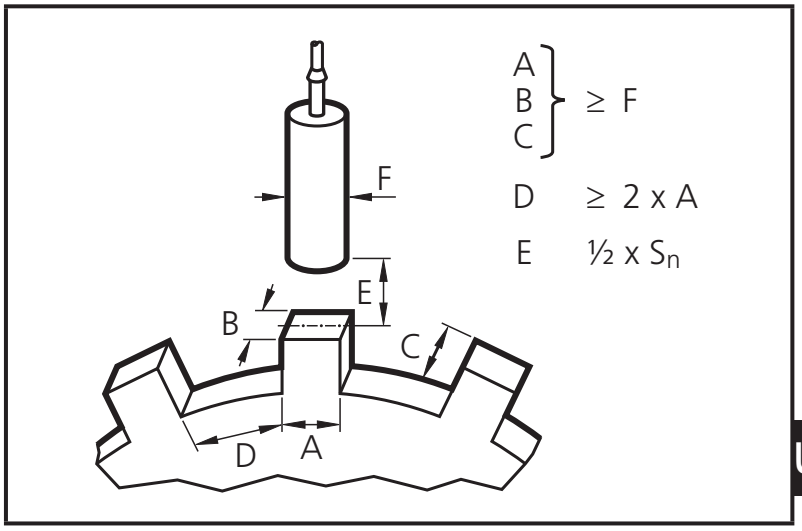
3 Functions and features

The unit detects without contact if a set rotational speed is not reached and signals this by means of a switching signal. The pulse output enables the external evaluation of the damping pulses.

▶ Nominal sensing range (Sn) and operating voltage see type label.

4 Installation





UK

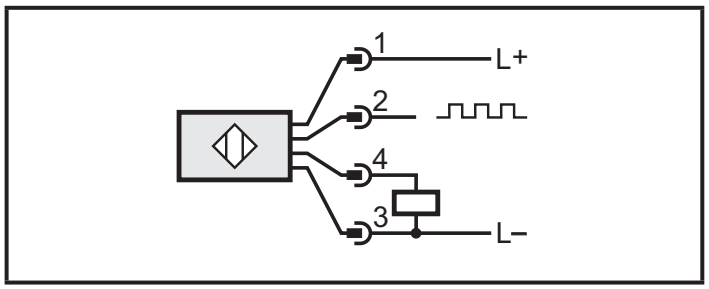
1: impact protection housing (connector)
2: impact protection housing (sensor)

In hazardous areas, operation of the unit is only allowed in conjunction with the enclosed impact protection housings (1) and (2).

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

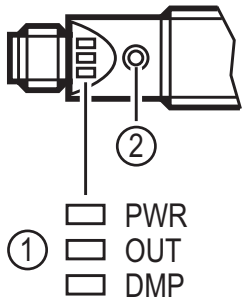
Non flush mountable.

5 Electrical connection



1. L+
2. pulse output (the pulse sequence corresponds to the damping frequency)
3. L-
4. switching output (adjustable)

6 Operating and display elements

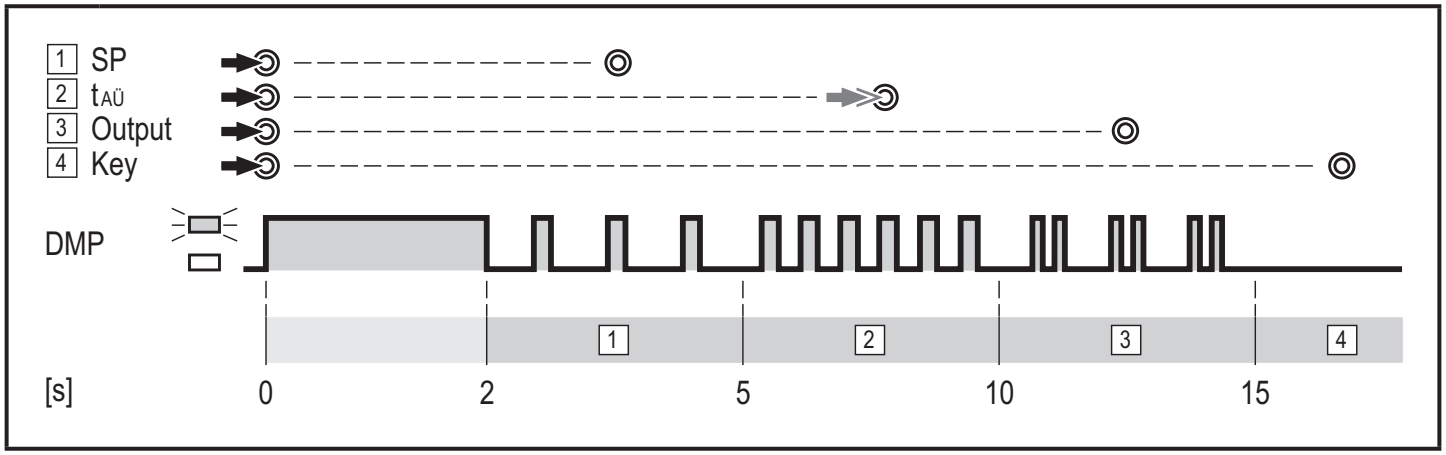
View	LED		Status	Meaning
	PWR	green	ON	operating voltage OK
	OUT	yellow	ON	output is switched
	DMP	green	pulse	damping pulse
			1 Hz 2 Hz double flash	time periods during the setting operation (→ 8 setting operation)
	OUT + DMP	yellow green	flashing alternately	Settings locked or setting not accepted

1: LEDs
2: set button

7 Adjustable parameters

Parameter		Value range	Preset teach value
SP	switch point (= teach value x 0.8)	3...6000 pulses/ min	100 pulses/min
$t_{AÜ}$	Start-up delay	0...15 s	10 s
Output	output function	normally open / normally closed	NO (output closed when speed > switch point)
Key	locking	on/off	off

8 Setting operation



= press the button and keep it pressed
= release the button = setting stored
= release the button and press n times (0 times = 0 s, 1 time = 1 s, etc.)

The setting operation is divided into time periods (steps) with a duration of approx. 3 and 5 seconds. The time periods are indicated by different flashing frequencies of the DMP LED. The corresponding setting is stored within a time period by releasing the pressed button.

Step	Setting	To store:
1	set the switch point	release the button
2	set the start-up delay	release the button press the button n times, wait 5 s after the last push of the button
3	change the output function (NO - NC, NC - NO)	release the button
4	lock or unlock the settings	release the button

▶ Press the button with a blunt object (e.g. pen).

9 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.