

Operating instructions 2-point switch for brake diagnosis

efectorizo M95

UK

CE



Content

1 Functions and features	
1.1 Symbols used	
2 Installation	
2.1 Installation of the unit in the application	
3 Electrical connection	4
4 Set-up	4
4.1 Switch point programming for output 1	
4.2 Switch point programming for output 2	5
4.3 Switch point reprogramming	6
4.4 Switching characteristics (example)	

1 Functions and features

The unit operates on the magnetic principle. The unit detects the position of the plunger and indicates it by two switching signals.

1.1 Symbols used

Instructions



 \rightarrow Cross-reference

Important note

Non-compliance can result in malfunction or interference.



Information

Supplementary note.

2 Installation

2.1 Installation of the unit in the application



- 1: output 1 (LED red), output 2 (LED yellow)
- 2: wrench flat
- 3: G1/2" mounting thread
- 4: plunger
- 5: installation environment or application

3 Electrical connection

The unit must be connected by a qualified electrician.

- The national and international regulations for the installation of electrical equipment must be adhered to.
- ► Ensure voltage supply to EN 50178.
- ► Disconnect power.
- ► Connect the unit as follows.



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If only one output is required:

Connect output 1.

If only output 2 is connected, the unit does not function.

4 Set-up

► Install the unit in the application.



Programming the switch points outside the application and subsequent installation in the application can lead to switch point shifting.

- ► Connect the unit.
- Switch on the operating voltage.
- > Both outputs continuously switch on and off alternately. Both LEDs flash (factory setting).

4.1 Switch point programming for output 1



1: teach position 1

▶ Bring plunger to teach position 1.

Bring plunger to teach position 2.

Short output 2 to GND (\geq 1 s).

switch point 2 + 0.1 mm.

Remove short circuit.

> Switch-off point:

- Short output 1 to GND (\geq 1 s).
- ► Remove short circuit.
- > Switch-off point: switch point 1 + 0.1 mm.

4.2 Switch point programming for output 2



2: teach position 2



For a reliable function of the sensor, both switch points need to be programmed.

If only one switch point is programmed, the sensor is reset to the factory setting after a voltage drop.

4.3 Switch point reprogramming



Both switch points can only be reprogrammed together because this requires the original factory setting.



3: reset position

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- Switch off the operating voltage.
- Bring plunger to the reset position: The plunger is retracted into the unit at maximum position.
- Short both outputs (OUT1 and OUT2) to GND.
- Switch on the operating voltage.
- ► Maintain the short circuit (≥ 1 s) and then remove it.
- > Factory setting restored.
- Reprogram switch points \rightarrow 4.1 and \rightarrow 4.2.

4.4 Switching characteristics (example)

The switch points can be set anywhere within the whole operating range.



1: operating range

Technical data and further information at www.ifm.com