FIP-M

DIGITAL TILTING INDICATOR
transistor output

FABERCOM

Description

Digital tilting indicator FIP-M is a digital device able to signal when inclination is exceeded on four independent semi-axes.

Information is given by:

- digital output:
  V+ when inclination is less than all four thresholds
  0V when inclination exceeds at least one threshold
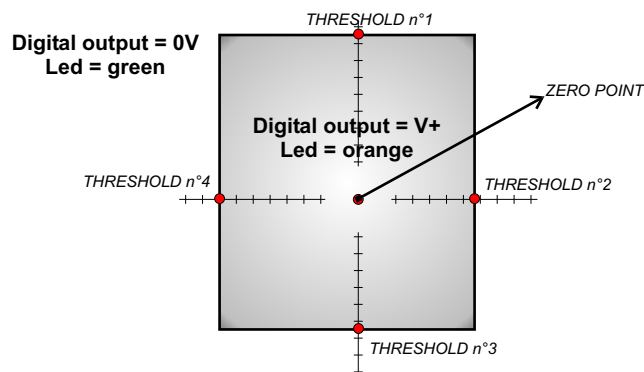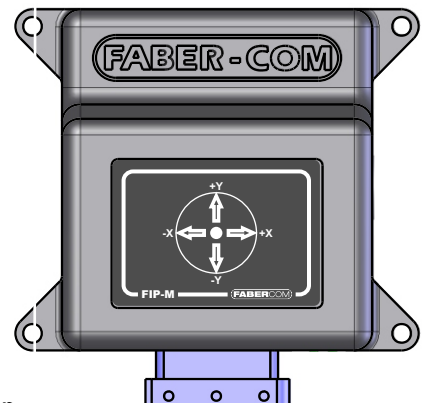(A reverse output logic can be requested during ordering)

- two-color led:
  orange when inclination is less than all four thresholds. Power indication.
  green when inclination exceeds at least one threshold

Each semi-axis has an independent configurable threshold.

Zero-calibration is also possible.

THRESHOLD n°1

Digital output = 0V
Led = green

ZERO POINT

Digital output = V+
Led = orange

THRESHOLD n°4

THRESHOLD n°2

THRESHOLD n°3

Working specifications

Digital tilting indicator uses a zero point and thresholds which are pre-calibrate in Fabercom following customer requests.
In order to re-program the mentioned four thresholds and zero point it is necessary a stand alone, serial programmer, named PRG2.

Otherwise it is possible to use a PC application, in conjunction with a RS232 serial comunication, designed to configure all FIP-M working parameters (inclued thresholds and zero point).
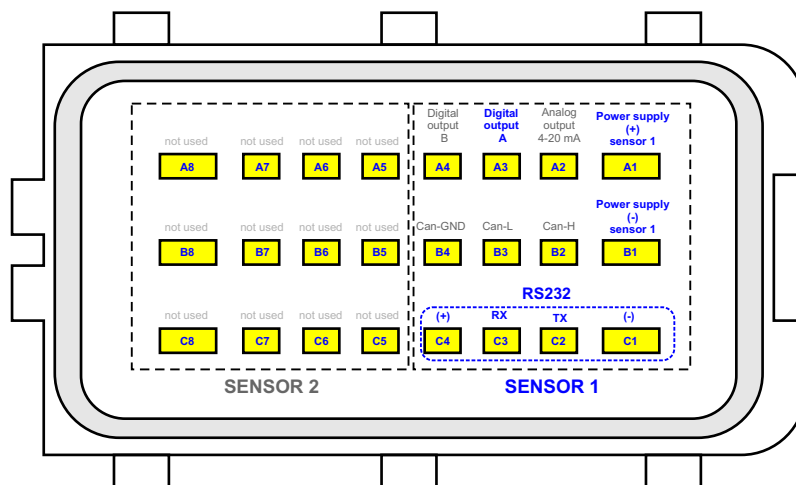
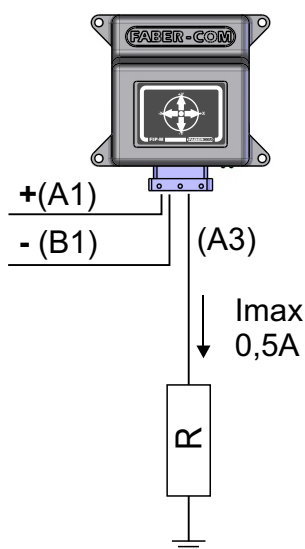At power on device is able to give immediatly an information about planarity.

Attention: digital output is designed for maximum 0,5 Amp resistive load rating

PRG2 used
for calibration

FABER-COM srl - Via Romana 36/1 - 42028 Poviglio (RE) - Italy Tel. +39-0522-960428   Fax. +39-0522-969644 - www.fabercom.it

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Connection:

+(A1)

- (B1)   (A3)

Imax 0,5A

R

not used A8	not used A7	not used A6	not used A5	Digital output B A4	Digital output A A3	Analog output 4-20 mA A2	Power supply (+) sensor 1 A1
not used B8	not used B7	not used B6	not used B5	Can-GND B4	Can-L B3	Can-H B2	Power supply (-) sensor 1 B1
not used C8	not used C7	not used C6	not used C5	RS232 (+) C4	RX C3	TX C2	(-) C1

SENSOR 2   SENSOR 1

Male 24 way connector (view from side pin)

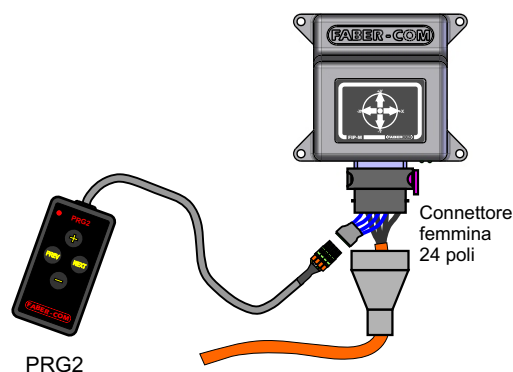NOTE: only marked pin are connect. Other are used in other version card

Ordering code:

FIP-M card (without connector): **PSDPAnnnnn (*)**

Female 24 way connector: **PCVF247**
(with accessories)

PRG2 Programming keyboard: **PPRG2**

(*) Specify before ordering:

→ Values of the 4 thresholds
→ on/off output logic (when it has to be ON and when OFF)
→ (optional) ON/OFF output hysteresis. [Pre-setting is 0,1°]
→ (optional) turn on delay in ON/OFF outpu [Pre-setting is 0sec].
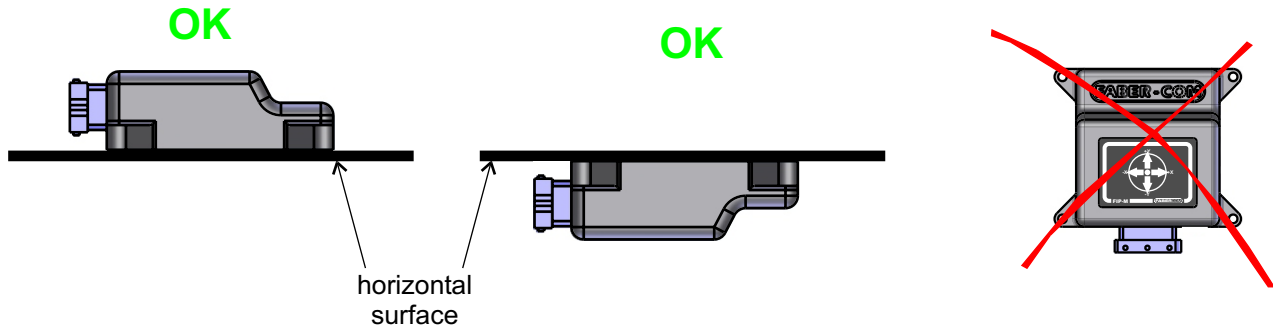→ (optional) turn off delay in ON/OFF output [Pre-setting is 0sec].

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Connettore femmina 24 poli

PRG2

Technical characteristics

Supply Voltage	10 ÷ 32 V
Digital output voltage	Valim - 0,125 V
Max output current	0,5 A
Consumption (without load)	23 mA
Operating field	(max [-40 ÷ 40 degrees])
Repeatability error	0.22 degrees
Intervention delay	programmable
Digital output protection	short circuit, overvoltage
Operating temperature	-40 ÷ 70 °C
Temperature drift	0,01 degrees/°C
Watertight rated	IP67

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Mounting recommendations

The FIP-MD must be mounted in accordance with the recommendations given below to ensure the correct working

OK

OK

horizontal
surface

Dimension

38

130

128

110

70

identify

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