



#### Main features:

- Direct measurement of surface strain
- Quick and non-destructive assembly with magnetic press-on technology
- High accuracy and linearity in tension and pressure (like bonded strain gauges)
- Ideal for use on presses, injection-moulding and die-casting machines
- Application on tie bars with a diameter of 45mm or higher and flat surfaces
- Dynamic applications
- Without amplifier (passive)

The magnetic strain gauge sensor QE1008-W measure the surface-strain directly at the mounting location in the same quality as bonded strain gages. The magnetic press-on technology, developed by Gefran Schweiz AG, presses the strain gauges under the stainless protective film so strongly against the surface to be measured that frictional contact occurs.

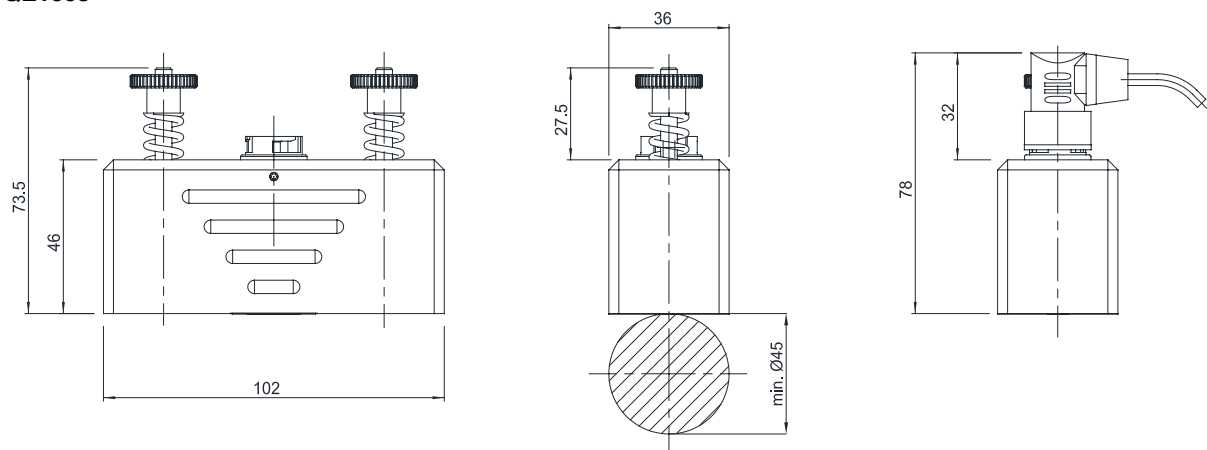
The mounting of the sensor is non-destructive, very fast and simple.

#### TECHNICAL DATA

Strain gauge type	Foil (GF = 2.0)
Bridge resistance	350Ω
Measuring range	± 800 µε
Sensitivity tolerance	± 0.2%
Transverse sensitivity	0.9 ± 0.2 %
Accuracy	<± 0,5% v. Ew.
Linearity	<± 0,5% v. Ew.
Hysteresis	<± 0,5% v. Ew.
Repeatability	< 0,2% v. Ew.
Nominal input resistance	350Ω
Supply voltage	2,5VDC (5VDC max)
Supply current	< 8mA
Operating temperature range	5...65°C
Storage temperature range	5...65°C
Overload capability	indefinite (offset occurs)
Protection class	IP54
Case material	Aluminium
Weight including cable	530g

DIMENSIONS

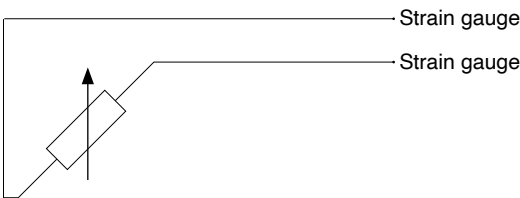
QE1008



Dimensions in mm

ELECTRICAL CONNECTIONS

1/4 Bridge



Connector PIN	Function
1	Strain gauge
2	Strain gauge
3	n.a.
4	n.a.
5	n.a.
6	n.a.

ORDER CODE

Magnet-mount strain sensor

QE1008 - ☐

Connection	
With cable connection	C

Example: QE1008 - C

Magnet-mount strain sensor QE1008, with cable connection

ACCESSORIES

Description		Order code	Code
Y-Cable	3 m	C - 678 - 030 - 680 - Y	F061939
	5 m	C - 678 - 050 - 680 - Y	F060629
	10 m	C - 678 - 100 - 680 - Y	F060630

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice.

**GEFRAN**

**GEFRAN spa**  
via Sebina, 74 - 25050 Provaglio d'Iseo  
(BS) - ITALIEN  
Tel.: +39 030 9888.1 - Fax: +39 030 9839063  
Internet: [www.gefran.com](http://www.gefran.com)

**Gefran Schweiz AG**  
Steigweg 8, - CH-8355 Aadorf, Schweiz  
Tel.: +41 52 523 25 00  
Fax: +41(0)52-3661884  
Internet: [www.gefran.com](http://www.gefran.com)