

JG 205 Series Force Measuring Journal

Protection Class IP68

Engineered to work under extreme conditions

10 times overload protection

No recalibration required

Compact and sturdy design

Requires little installation space

Nominal forces from 125 - 1500 N

Sizes available for every application

Stainless Steel Sensor

Corrosion resistant, ultra durable



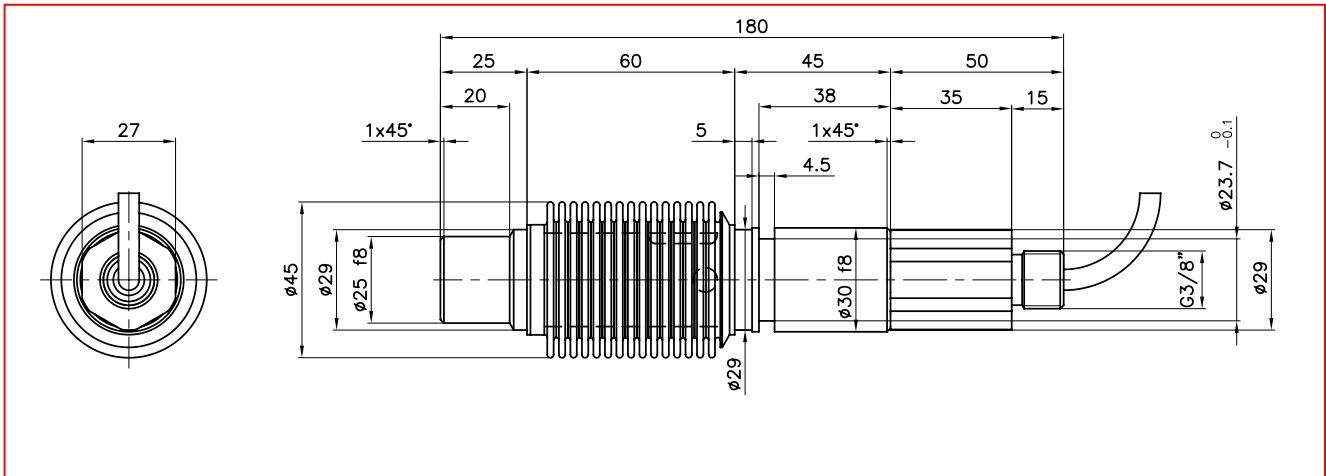
- JG 205 Series

JG205 is ideally suited to work under the most stringent environmental requirements, where the exposure to aggressive chemical additives, high temperatures and humidity are factors. Thanks to its special compact and durable design these sensors are effectively used in textile applications such as Mercerizing Lines, Thermofixing, Coating and Laminating machines. The JG 205 Series can be combined with all FMS measuring amplifiers.

- Functional Description

A foil type strain gauge mounted in a full Wheatstone Bridge configuration performs the actual tension measurement. The dual flexion beam design eliminates angular deflection under load and ensures tension measurement with the highest accuracy and reliability even with low material wrap angles. The JG205 sensor owes its high protection class (IP68) to a hermetically soldered stainless steel gaiter and glass sealed PG-glands.

JG 205 Series • Dimensions in mm



.JG0001

JG 205 Series • Forces		
Sensor	Nominal Force	
Type	N	[lbf]
JG 205.125	125	28.1
JG 205.250	250	56.2
JG 205.500	500	112.4
JG 205.1000	1000	224.8
JG 205.1500	1500	337.2

Options:

H16 = Temperature range with PG-gland up to 150 °C [302 °F]

Order code (example): **JG205 . 1500 . H16**

Sensor type

Nominal force

Option

JG205 Series • Technical Data

Sensitivity	1.8 mV/V
Sensitivity tolerance	< ± 0.2 %
Accuracy class	± 0.5 % (F _{nominal})
Temperature coefficient	±0.1% / 10K [±0.0055% / °F]
Temperature range	-10...+60 °C -10...+150 °C [14...302 °F] for H16
Input resistance	350 Ω
Supply voltage	1...12 VDC
Maximum overload	10 times rated nominal force
Sensor material	Stainless steel
Protection class	IP 68
Weight	0.7 kg [1.54 lbs]

Scope of delivery:

Force measuring journal
Operation manual
5 m cable for standard temperature range

Not included:

Bearings
Mounting screws
In H16-optiond the high temperature cable has to be ordered separately.

World Headquarters:

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