

Miniature compression force transducer up to 2,000 kg

with electrical output



Features

- Miniature compression force transducer with metal foil strain gauge technology
- Made of stainless steel or aluminum

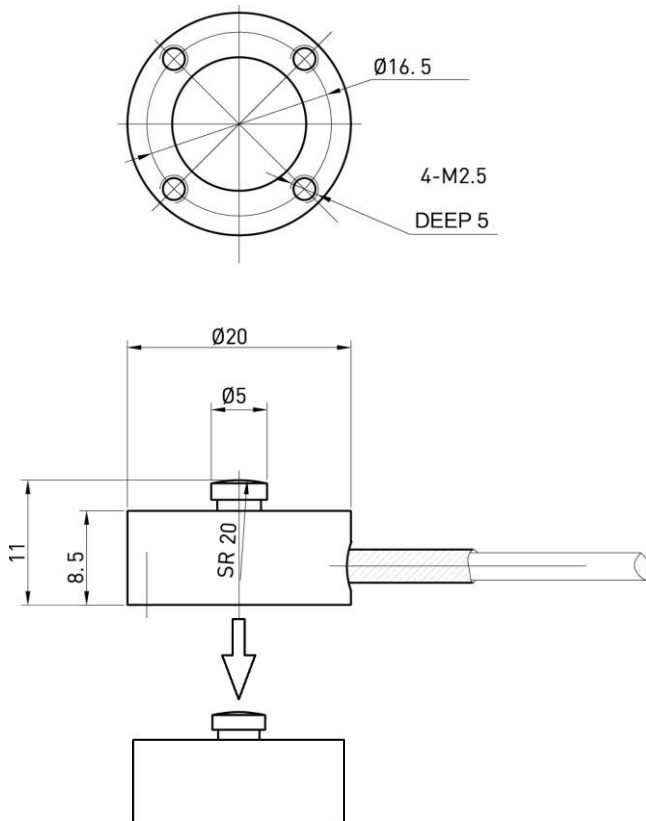
Measuring range

- 5 ... 2,000 kg

Applications

- Suitable for force measurement in limited spaces
- Widely used for industrial measurement and control, R&D and industrial load monitoring

Drawing (Dimensions in mm)



Technical data

Model	F1818
Nominal load F_{nom} in kg	5, 10, 20, 50, 100, 200, 500, 1,000, 1,500, 2,000
Limit load	150% F_{nom}
Breaking load	200% F_{nom}
Hysteresis	0.25% of F.S.
Non-Linearity	1 % of F.S.
Zero Balance	$\pm 2\%$ of F.S.
Repeatability	0.25% of F.S.
Creep, 30 min. at F_{nom}	0.25% of F.S.
Insulation	$\geq 5,000 M\Omega / 100 VDC$
Insulation resistance	$350 \pm 30 \Omega$
Bridge resistance	$350 \pm 5 \Omega$
Rated Output	$1.5 \pm 10\% mV/V$
Temperature effect -span	0.05% of F.S. / $10^\circ C$
-zero	0.05% of F.S. / $10^\circ C$
Recommended excitation	5 V
Maximum excitation	10 V
Nominal temperature range	$-10 \dots +60^\circ C$
Service temperature range	$-20 \dots +80^\circ C$
Protection type	IP 66
Material	Stainless steel or aluminum alloy
Cable size	$\varnothing 3 \times 1,000$ mm
Cable color code	Input: Red (+) Black(-); Output: Green(+) White(-)

of F.S. = full scale value

Subject to technical changes

Model: F1818