Baumer
Passion for Sensors

Load cells

DLM30-SO

Compact screw-on load cells for industrial applications

DLM30-SO.###.TP3.C4

Overview

- Tension and compression load from 0 ... 5'000 N
- Non-linearity < 0.2 %
- Mounting possibility on both sides
- Sensor body made of stainless steel with protection class IP68
- Fully welded sensor design
- Durable with 100% working stroke



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Technical data

general data	
Measuring range	0 ... 5000 N
Non-linearity	< 0.2 %
Repeatability	< 0.1 %
Temperature effect zero	< 0.2 % / 10K
Zero point deviation	< 20 %
Type	Screw-on
Mechanical mounting	4 x M4 screws / M6 thread
electrical data	
Nominal sensitivity	1 mV/V
Bridge resistance	1000 Ω
Supply voltage	0.5 ... 12 VDC
Signal polarity positive	Tension
mechanical data	
Overload	150 %
Breaking load	200 %

mechanical data	
Nominal displacement	21 µm
Weight	95 g
Material sensor body	Stainless steel, 1.4542
Fatigue strength	>10 Mio cycles at 0...100% FS
Electrical connection	M8, 4 pin, male
environmental conditions	
Operating temperature range	-40 ... 85 °C
Storage temperature range	-40 ... 85 °C
Protection class EN 60529, ISO20653	IP 68
compliance and approvals	
EMC	EN 61000-6-2 EN 61000-6-3 EN 61326-2-3
UL listed	E217824

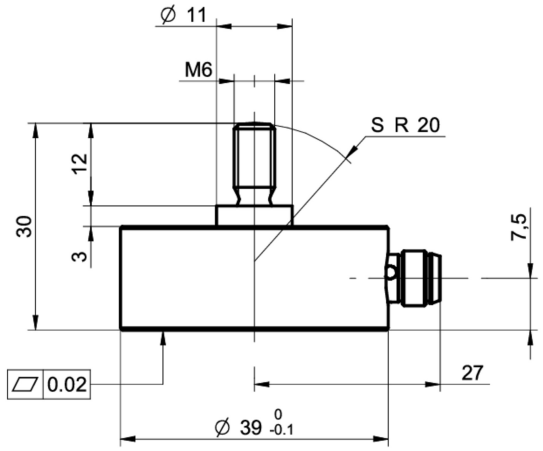
2020-01-27 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

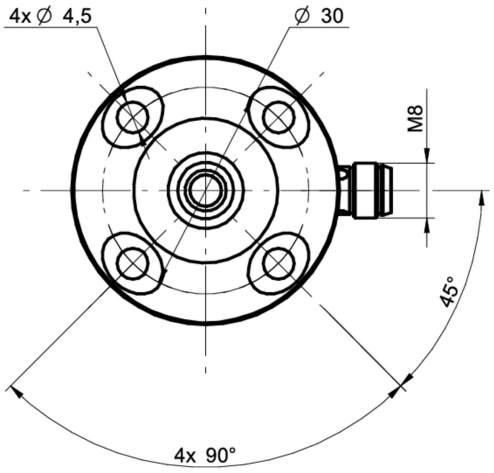
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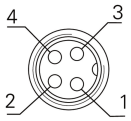
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Dimensional drawings





Electrical connection



1	+Vs
2	Sig +
3	–Vs
4	Sig –

Ordering key - Configuration possibilities see website

	DLM	30	-	SO	.	###	.	T	P3	.	C4
Product group											
Membrane force sensor	DLM										
Size category											
30		30									
Type											
Screw-on				SO							
Max. nominal force											
200 N						201					
500 N						501					
1 kN						102					
2 kN						202					
5 kN						502					
Measuring direction positive											
Tension								T			
Ouput signal											
Nominal sensitivity 1.00 mV/V									P3		
Electrical connection											
M8, 4 pin, male											C4

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