

## DLM20-BU

Compact button load cells for industrial applications

DLM20-BU.###.CP3.M4

### Overview

- Compression load from 0 ... 2000 N
- Non-linearity < 0.2 %
- Small outer diameter for limited space conditions
- Sensor body made of stainless steel with protection class IP67
- Fully welded sensor design
- Durable with 100% working stroke



### Technical data

#### General data

Measuring range	0 ... 2000 N
Non-linearity	< 0.2 %
Repeatability	< 0.1 %
Temperature effect zero	< 0.2 % / 10K
Zero point deviation	< 20 %
Type	Button
Mechanical mounting	4 x M2 screws / loose

#### Electrical data

Nominal sensitivity	1 mV/V
Bridge resistance	1000 Ω
Supply voltage	0.5 ... 12 VDC
Signal polarity positive	Compression

#### Mechanical data

Overload	150 %
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#### Mechanical data

Breaking load	200 %
Fatigue strength	>10 Mio cycles at 0...100% FS
Nominal displacement	13 μm
Weight	14 g
Material sensor body	Stainless steel, 1.4542
Electrical connection	M5, 4 pin, male

#### Environmental conditions

Operating temperature range	-40 ... 85 °C
Storage temperature range	-40 ... 85 °C
Protection class EN 60529, ISO20653	IP 67

#### Compliance and approvals

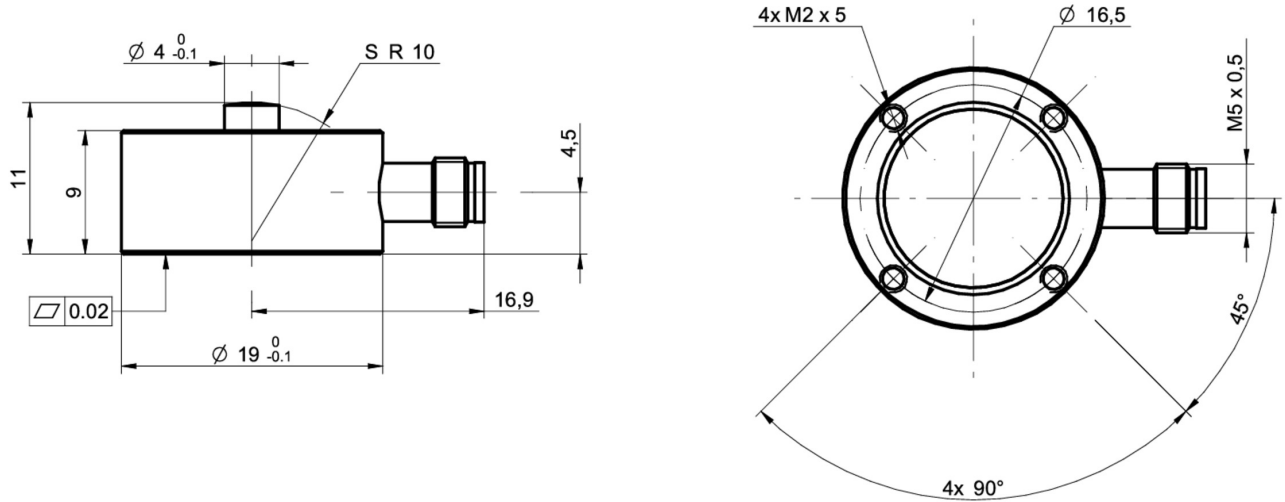
UL listed	E217824
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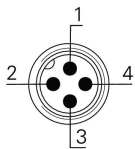
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## Dimensional drawings (mm)



## Electrical connection



- 1 +Vs
- 2 Sig +
- 3 -Vs
- 4 Sig -

## Ordering key - Configuration possibilities see website

	DLM	20	-	BU	.	###	.	C	P3	.	M4
<b>Product group</b>	Membrane force sensor										
<b>Size category</b>	20										
<b>Type</b>	Button										
<b>Nominal force</b>											
50 N											500
100 N											101
200 N											201
500 N											501
1 kN											102
2 kN											202
<b>Measuring direction positive</b>	Compression										
<b>Output signal</b>	Nominal sensitivity 1.00 mV/V										
<b>Electrical connection</b>	M5, 4 pin, male										