



Short Description



- Stainless steel IP68 low profile ring torsion load cell
- Hermetically sealed
- Suitable for hopper, platform and pallet scales
- Integrated static overload protection up to 13t
- Wide range of capacities from 60kg to 60t



Test certificate no. TC7865 Revision 1
C of C no R60/2000-NL1-11.21



Certificate no. 11-103A1

Available Models

Capacity	Accuracy	Full Article Description
60kg	C3/C4/C5	BM24R-C3/C4/C5-60kg-3G
130kg	C3/C4/C5	BM24R-C3/C4/C5-130kg-3G
250kg	C3/C4/C5	BM24R-C3/C4/C5-250kg-3G
280kg	C3/C4/C5	BM24R-C3/C4/C5-280kg-3G
500kg	C3/C4/C5/C6	BM24R-C3/C4/C5/C6-500kg-3G
1t	C3/C4/C5/C6	BM24R-C3/C4/C5/C6-1t-3G
2t	C3/C4/C5/C6	BM24R-C3/C4/C5/C6-2t-6G
3.5t	C3/C4/C5	BM24R-C3/C4/C5-3.5t-6G
5t	C3/C4/C5	BM24R-C3/C4/C5-5t-6G
10t	C3/C4/C5	BM24R-C3/C4/C5-10t-15G
13t	C3/C4/C5	BM24R-C3/C4/C5-13t-15G
28t	C3/C4/C5	BM24R-C3/C4/C5-28t-15G
60t	C3/C4/C5	BM24R-C3/C4/C5-60t-15G

Technical Specifications BM24R

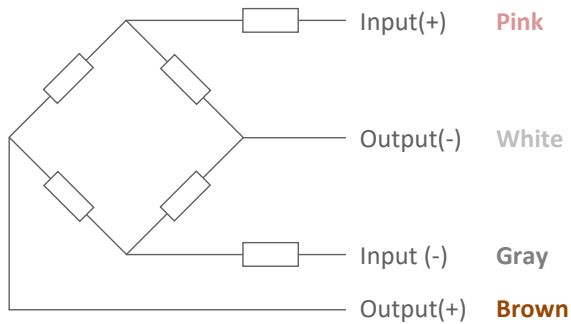
Accuracy Class		OIML R60 C3 / OIML R60 C4 / OIML R60 C5 / OIML R60 C6					
Output Sensitivity (= FS)	mV/V	1.0±0.01	1.75±0.2	2.0±0.1			
Maximum Capacity (E _{max})	t	0.06, 0.13, 0.28	0.25	0,5, 1, 2, 3.5, 5, 10	13	28	60
Max. Number of Load Cell Intervals	n _{LC}	C3 = 3000		C4 = 4000	C5 = 5000		C6 = 6000
Ratio of min. LC Verification Interval	Y = E _{max} / v _{min}	10000		14000	16000		18000
Combined Error	%FS	≤± 0.0230		≤± 0.0173	≤± 0.0140		≤± 0.012
Creep Error (30 minutes)	%FS	≤± 0.0245		≤± 0.0184	≤± 0.0147		≤± 0.012
Temperature Effect on Zero	%FS/10°C	≤± 0.0150		≤± 0.0110	≤± 0.0088		≤± 0.0077
Temperature Effect on Sensitivity	%FS/10°C	≤± 0.0117		≤± 0.0088	≤± 0.0070		≤± 0.0058
Zero Balance	%FS	≤± 1.0					
Minimum Dead load	%FS	0					
Safe Overload	%FS	150					
Ultimate Overload	%FS	300					
Excitation, Recommended Voltage	V (DC)	5 ~ 12					
Excitation, Maximum Voltage	V (DC)	18					
Input Resistance	Ω	1260 ± 100	1100 ± 100	1100 ± 100	1200 ± 100	1075 ± 100	1350 ± 200
Output Resistance	Ω	1020 ± 0.5	1025 ± 25	1025 ± 25	1000 ± 0.5	930 ± 0.5	1175 ± 0.5
Insulation Resistance (50VDC)	MΩ	≥5000					
Compensated Temperature	°C	-10 ~ + 40					
Operating Temperature	°C	-35 ~ + 70					
Storage Temperature	°C	-40 ~ + 70					
Load Cell Weight	kg	~0.6 – 6.7					
Element Material		Stainless Steel					
Ingress Protection (acc. to EN 60529)		IP68					
Recommended Torque on Fixation	Nm	M5: 3.5			M6: 10		
ATEX Classification (optional)		II 1G Ex ia IIC T4 Ga, II 1D Ex ia IIIC T200 102°C Da, II 3G Ex ic IIC T4 Gc, II 3G Ex nA IIC T4 Gc, II 3D Ex tc IIIC T63°C Dc					

Wiring

Features:

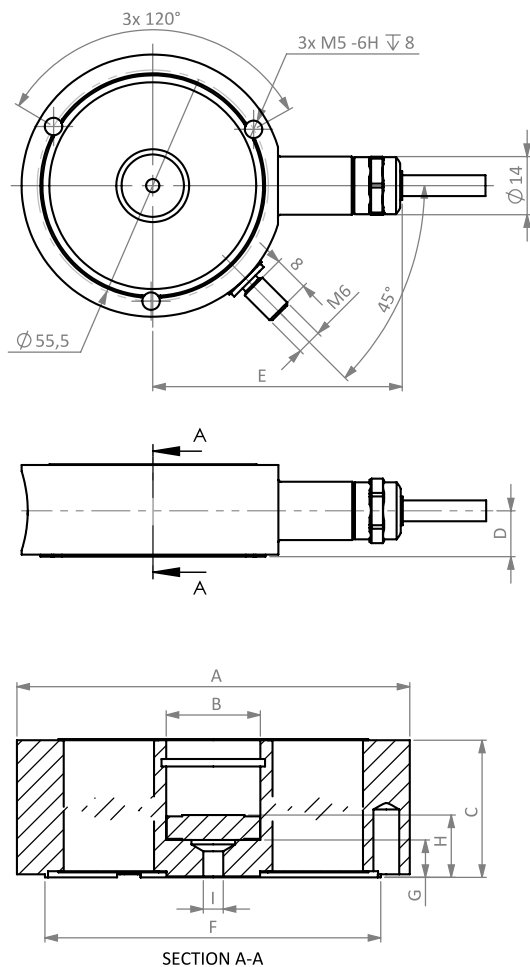
Cable type: Shielded, 4 conductor cable , conductor AWG 24
Cable diameter: $\varnothing 6.2\text{mm} \pm 0.1\text{mm}$
Cable length: 60kg – 1t: 3m, 2t – 5t: 6m, 10t – 60t: 15m
Cable jacket: Polyurethane
Shield connected to element

4-Wire Connection Diagram

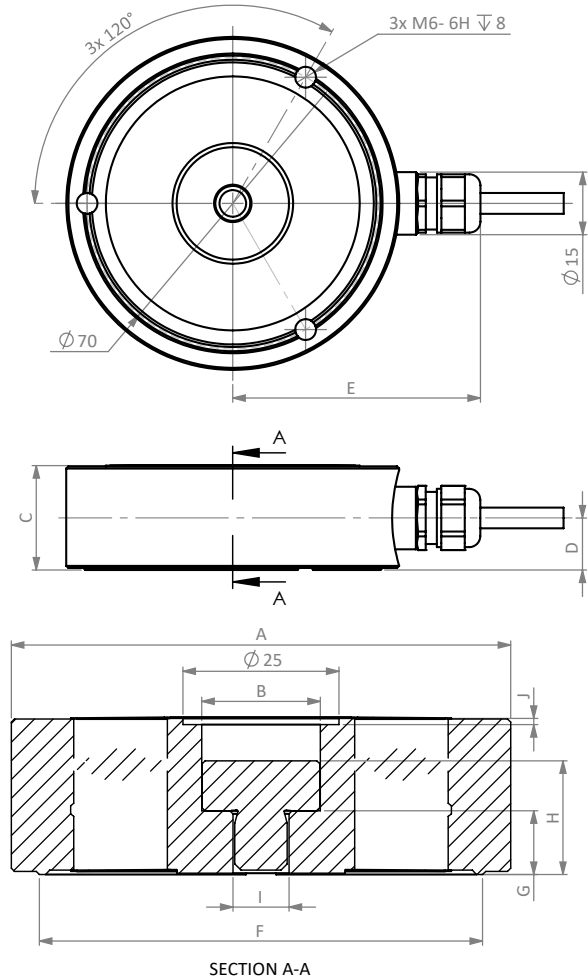


Dimensions in mm

0.06, 0.13, 0.28t



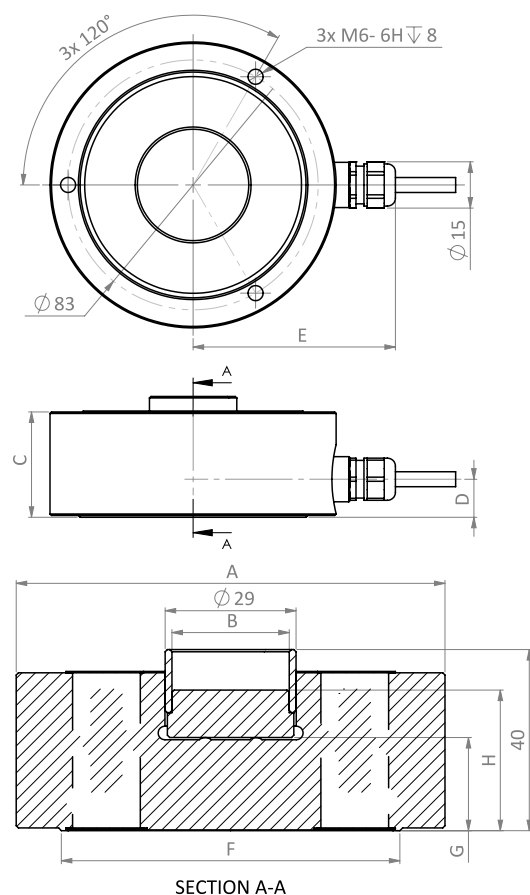
0.25, 0.5, 1, 2, 3.5, 5t



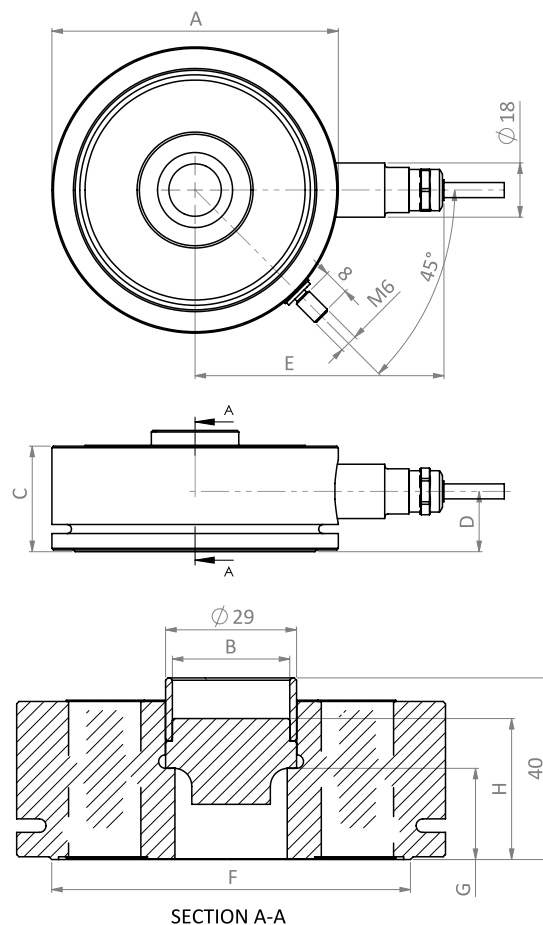
Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

Dimensions in mm

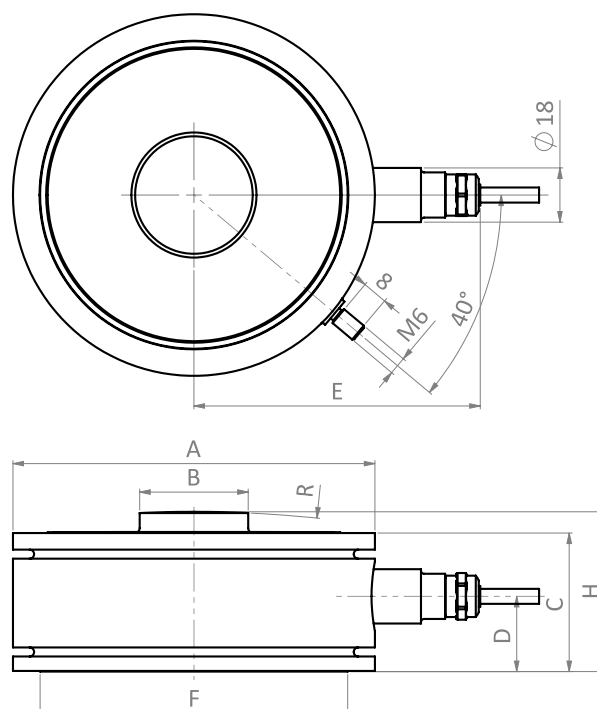
10t



13t



28, 60t

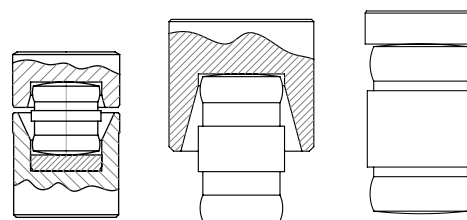


Dimension Capacity	ØA	ØB	C	D	E	ØF	G	H	I	J	R
0.06t, 0.13t, 0.28t	63	15.1	22	11	60	54	6	10	Ø3.2	-	-
0.25t, 0.5t, 1t	80	19	25	12.5	65	71	10	18	M10	1	-
2t, 3.5t, 5t	80	19	30	12.5	65	71	10	18	Ø15	6	-
10t	95	26	35	12.5	67	75	20.7	31.2	-	-	-
13t	95	26	35	20	82.5	79.5	20	31	-	-	-
28t	120	35.9	46	25	94	102	-	53	-	-	400
60t	140	47.9	62	34	104	124	-	69	-	-	600

Available Accessories

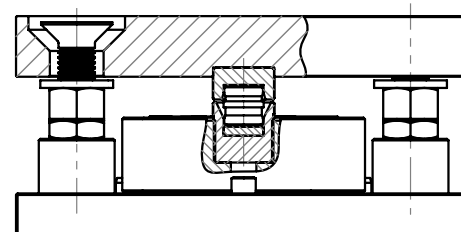
BM-24-401/402/403-Z2/Z3-0.25-13t Rocker Pin set

- Automatic centring of load
- Anti-corrosion
- Easy installation
- Stainless steel



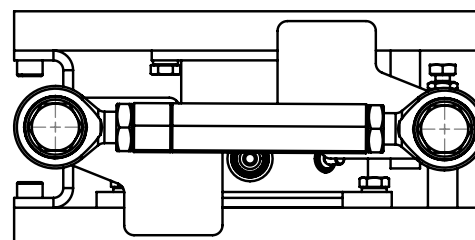
BM-24-401/402/403-0.25-13t Tank Mount

- Stainless steel mount
- Easy load cell access
- Easy installation
- Lift-off protection
- Controlled horizontal movement



BM-24-904-28t/60t Tank Mount

- Stainless steel mount for largest capacities
- Complete kit including dummy loadcell, pressure piece & transport plate
- Easy installation
- Built-in horizontal movement control



BY-24-502-0.25t – 1t/2t – 5t Ball Foot

- Stainless steel ball foot
- Easy installation
- Good ability of anti-side loading

