

MP 76

S-Type Load Cell



60 kg... 5 t, Type N/C3

- Full stainless steel construction
- High resolution and linearity
- Hermetically welded seal (IP67)
- Robust and 100% maintenance free
- Approved according to OIML R60

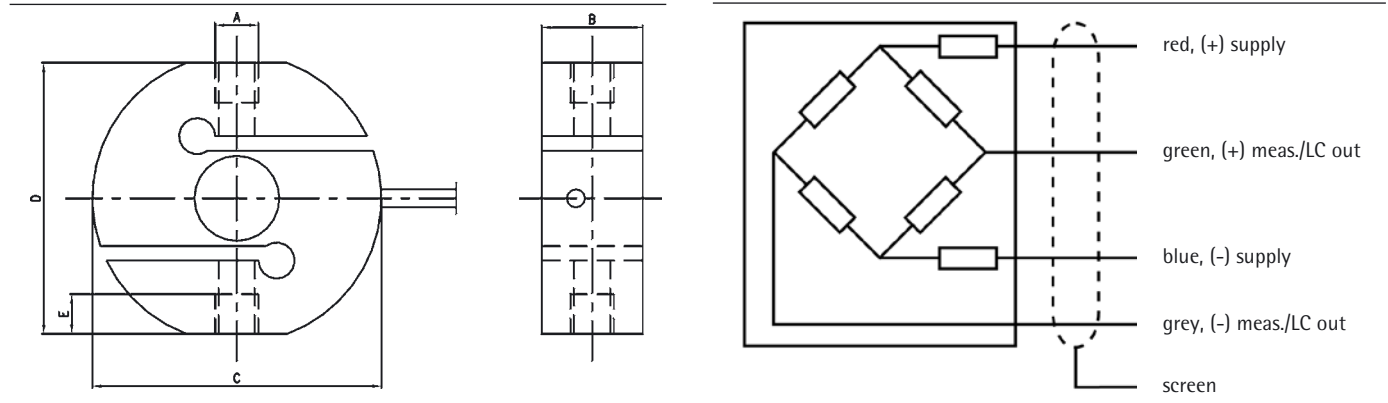
Applications

- Mechanical scale conversions
- Suspended tank and hopper scales
- Ideal for tension measurement

Technical Data		N	C3	
Accuracy class		0.03	0.025	%
Minimum dead load	E_{min}	0	0	% E_{max}
Rated capacity	E_{max}	s. table	s. table	
Safe overload	E_U	150	150	% E_{max}
Destructive load	E_d	> 300	> 300	% E_{max}
Minimum LC verification interval $v_{min} = E_{max}/Y$		-	8,333	
Rated output	C_n	2	2	mV/V
Tolerance on rated output	d_c	≤ 0.25	≤ 0.25	% C_n
Zero output signal	S_{min}	± 2	± 2	% C_n
Repeatability	ϵ_R	≤ 0.012	≤ 0.012	% C_n
Creep, during 30 min.	d_{cr}	≤ 0.03	≤ 0.017	% C_n
Temperature effect on S_{min}	TK_0	≤ 0.028	≤ 0.017	% $C_n/10K$
Temperature effect on C	TK_c	≤ 0.025	≤ 0.011	% $C_n/10K$
Input impedance	R_{iC}	400 ± 50	400 ± 50	Ω
Output impedance	R_o	352 ± 3	352 ± 3	Ω
Insulation impedance	R_{iS}	> 2,000	> 2,000	MΩ
Recommended supply voltage	B_u	10	10	V
Maximum supply voltage	U_{max}	15	15	V

Technical Data		N	C3	
Nominal ambient temperature range	B _T	-10 ... +40	-10 ... +40	° C
Usable ambient temperature range	B _{TU}	-30 ... +70	-30 ... +70	° C
Nominal deflection	S _{nom}	≤ 0.3	≤ 0.3	mm
Cable	-	4 conductor TPE cable (AWG26), 5 m		
Protection class	-	IP67	IP67	
Sensor material for capacities up to 500 kg		Stainless steel AISI 420 (1.4021)		
Sensor material for capacities from 1000 kg		Stainless steel AISI 630 (1.4542)		

The technical data given here serve only as a product description and must not be interpreted as guaranteed characteristics in the legal sense.



Dimensions in mm

Capacity	A	B	C	D	E	Nominal Deflection	Weight
60 kg to 500 kg	M12 × 1.75	28	80	75	15	≤ 0.2 mm	1 kg
1 t	M20 × 1.5	28	80	75	15	≤ 0.3 mm	1 kg
2 t	M20 × 1.5	28	95	90	15	≤ 0.3 mm	1.5 kg
3 t, 5 t	M20 × 1.5	28	125	120	20	≤ 0.3 mm	2.5 kg

Accessories

Type	Description	Order number
MP 96/00N	swivel eye for MP 76/60kg ... MP 76/500kg	9408 800 96001
MP 96/01N	swivel eye for MP 76/1t ... MP 76/5t	9408 800 96011

Order information

Type	Order number	Type	Order number	Rated capacity (2mv/V)
MP 76/60kgC3	9408 276 03060	MP 76/60kgN	9408 276 01060	60 kg
MP 76/125kgC3	9408 276 03112	MP 76/125kgN	9408 276 01112	125 kg
MP 76/250kgC3	9408 276 03125	MP 76/250kgN	9408 276 01125	250 kg
MP 76/500kgC3	9408 276 03150	MP 76/500kgN	9408 276 01150	500 kg
MP 76/1tC3	9408 276 03210	MP 76/1tN	9408 276 01210	1000 kg
MP 76/2tC3	9408 276 03220	MP 76/2tN	9408 276 01220	2000 kg
MP 76/3tC3	9408 276 03230	MP 76/3tN	9408 276 01230	3000 kg
MP 76/5tC3	9408 276 03250	MP 76/5tN	9408 276 01250	5000 kg

Certificate of conformity

MP 76 (optional)

Ex-Zone 2, 22
II 3G Ex nA II T6
II 3D Ex tD A22 IP65 T85°C

MP 76 (optional)

Ex-Zone 20, 21
II 1D IP65 T85°C