



# MP 57

## Bending Beam Load Cell



5kg... 500kg, Type N/C3/C3MR/C3MR+

- Full stainless steel construction
- Compatible with other sources
- Hermetically welded seal (IP68)
- Approved according to OIML R60
- Ex-Version available (MP57/...E)

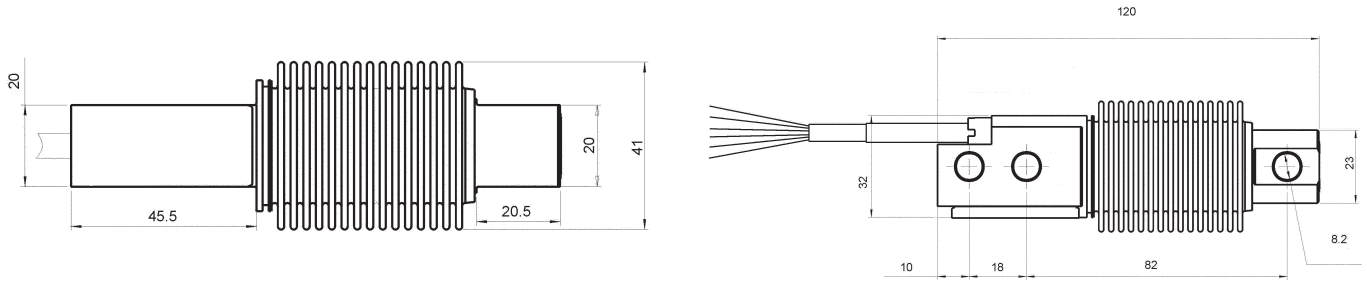
### Applications

- Platform scales
- Tank & Hopper scales
- Conveyor scales
- Mechanical scale conversions

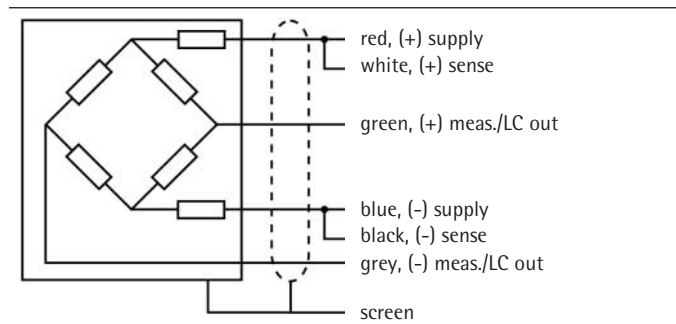
Technical Data		N	C3	C3MR	C3MR+	
Accuracy class		0.03	0.02	0.02	0.02	% $E_{max}$
Rated capacity	$E_{max}$	s. table	s. table	s. table	s. table	
Safe overload	$E_u$	150	150	150	150	% $E_{max}$
Destructive load	$E_d$	> 300	> 300	> 300	> 300	% $E_{max}$
Minimum LC verification interval $v_{min} = E_{max}/Y$	Y	-	6,000	12,000	15,000	
Rated output	$C_n$	2	2	2	2	mV/V
Tolerance on rated output	$d_c$	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	% $C_n$
Zero output signal	$S_{min}$	≤ 2	≤ 2	≤ 2	≤ 2	% $C_n$
Creep, during 30min.	$d_{cr}$	≤ 0.025	≤ 0.0167	≤ 0.0167	≤ 0.0167	% $C_n$
Temperature effect on $S_{min}$	$TK_{S_{min}}$	≤ 0.035	≤ 0.023	≤ 0.0116	≤ 0.0093	% $C_n/10K$
Temperature effect on C	$TK_C$	≤ 0.014	≤ 0.01	≤ 0.01	≤ 0.01	% $C_n/10K$
Input impedance	$R_{LC}$	380 ± 10	380 ± 10	380 ± 10	380 ± 10	Ω
Output impedance	$R_0$	350 ± 3	350 ± 3	350 ± 3	350 ± 3	Ω
Insulation impedance	$R_{IS}$	> 5,000	> 5,000	> 5,000	> 5,000	MΩ
Recommended supply voltage	$B_u$	10	10	10	10	V
Maximum supply voltage	$U_{max}$	15	15	15	15	V
Nominal ambient temperature range	$B_T$	-10 to +40	-10 to +40	-10 to +40	-10 to +40	° C
Usable ambient temperature range	$B_{Ti}$	-30 to +70	-30 to +70	-30 to +70	-30 to +70	° C

Technical Data		N	C3	C3MR	C3MR+	
Nominal deflection	$s_{nom}$	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4	mm
Cable length		3	3	3	3	m
Environmental protection		IP 68	IP 68	IP 68	IP 68	

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



#### Certificate of conformity

Features: II 1GD T85°C EEx ia IIC T6, II 1GD T115°C EEx ia IIC T4  
Reg. Number: SIRA 04 ATEX 2143x

#### Order number for ATEX load cells

9408 6.. ..  
e.g. MP57/100kg C3 E = 9408 657 03110

#### Order information

Type	Order number	Type	Order number	Max. capacity (2mV/V)
MP57/5kg N	9408 257 01005	MP57/5kg C3	9408 257 03005	5kg
MP57/10kg N	9408 257 01010	MP57/10kg C3	9408 257 03010	10kg
MP57/20kg N	9408 257 01020	MP57/20kg C3	9408 257 03020	20kg
MP57/30kg N	9408 257 01030	MP57/30kg C3	9408 257 03030	30kg
MP57/50kg N	9408 257 01050	MP57/50kg C3	9408 257 03050	50kg
MP57/100kg N	9408 257 01110	MP57/100kg C3	9408 257 03110	100kg
MP57/200kg N	9408 257 01120	MP57/200kg C3	9408 257 03120	200kg
MP57/250kg N	9408 257 01125	MP57/250kg C3	9408 257 03125	250kg
MP57/500kg N	9408 257 01150	MP57/500kg C3	9408 257 03150	500kg
MP57/5kg C3MR	9408 257 07005	MP57/5kg C3MR+	9408 257 08005	5kg
MP57/10kg C3MR	9408 257 07010	MP57/10kg C3MR+	9408 257 08010	10kg
MP57/20kg C3MR	9408 257 07020	MP57/20kg C3MR+	9408 257 08020	20kg
MP57/30kg C3MR	9408 257 07030	MP57/30kg C3MR+	9408 257 08030	30kg
MP57/50kg C3MR	9408 257 07050	MP57/50kg C3MR+	9408 257 08050	50kg
MP57/100kg C3MR	9408 257 07110	MP57/100kg C3MR+	9408 257 08110	100kg
MP57/200kg C3MR	9408 257 07120	MP57/200kg C3MR+	9408 257 08120	200kg
MP57/250kg C3MR	9408 257 07125	MP57/250kg C3MR+	9408 257 08125	250kg
MP57/500kg C3MR	9408 257 07150	MP57/500kg C3MR+	9408 257 08150	500kg