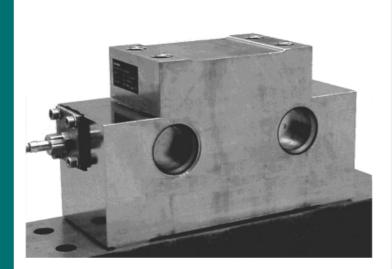


Weighbeam DMR 15t



- High accuracy
- Hermetically sealed, protected to IP67 by laser welding
- Easy and economical installation through direct screwing to the connecting structure
- Transmission of high interferential forces and moments at minimal influence on measurement value
- For high temperatures and rugged operation
- For the design of maintenance-free scales

Application

- Railway scales
- Crane scales
- Coil scales

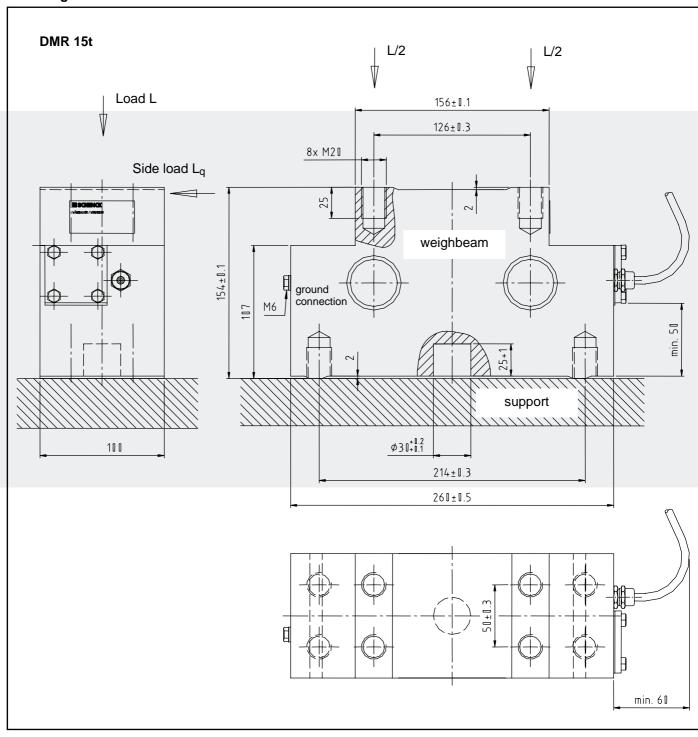
Equipment

- Two-line load introduction and outlet
- Stainless steel
- Hermetically sealed

Function

- High repeatability
- High long-term stability and consistently high accuracy
- No additional tie-rods or hold-downs
- Optional execution with two measuring circuits inside one sensor available

Mounting Dimensions

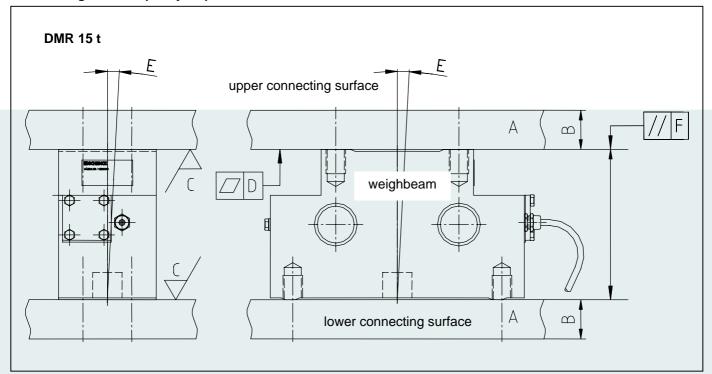


Technical Data

DMR 15 t				Ref.
Rated capacity	E _{max}	15 t		
Accuracy class		C1 (OIML R60) C2 upon request	0.1	
Number of increments	n _{LC}	1000		
Nominal measuring range	B _{max}	B _{max} =	= E _{max}	
Sensitivity	C _n	2.00 mV/V		
Combined error	F _{comb}	<u>+</u> 0.06 %	<u>+</u> 0.1 %	C _n
Return of minimum preload signal	d_{DR}	<u>+</u> 0.033 %		C _n
Creep error (30 min)	d _{cr}	<u>+</u> 0.049 %	<u>+</u> 0.05 %	C _n
Zero signal temperature coefficient	TK _{smin}	<u>+</u> 0.028 % / 10K		C _n
Sensitivity temperature coefficient	TKc	<u>+</u> 0.023 % / 10K		
Minimum increment value	V _{min}	E _{max} / 5000		
Minimum measuring range	B _{min}	33.3 %		
Limit load (with $L_Q = 0.15 \times E_{max}$)	L _L	26 t		
Rupture load (with $L_Q = 0.15 \times E_{max}$)	L _B	38 t		
Max. lateral load	LQ	13 t		
Input resistance	R _{LC}	378 <u>+</u> 3 ohms		t _{ref}
Output resistance	R _o	360 <u>+</u> 0.5 ohms		t _{ref}
Zero signal	So	<u>+</u> 1%		C _n
Relative sensitivity deviation	d _c	<u>+</u> 0.2%		C _n
Supply voltage nominal range	B _U	5 V to 12 V		
Nominal temperature range	B _T	-10°C to +40°C		
Service temperature range	B _{tu}	-30°C to +120°C		
Reference temperature	t _{ref}	22°C		
Material		Stainless steel		
Protected to		IP 67 (laser welded)		
Corrosion protection		see resistance list DDP8 483		
Dead weight	m _e	25 kg		
Measuring cable		4 x 0.5 mm ² screened in pairs and external screening outer diameter 6.5 mm, Length 8 m Silicone, -30°C to +150°C		
Colour code		Black: Input + Blue: Input - Red: Output + White: Output - Green-Yellow: screen		



Connecting surface quality requirements



- Material quality "A":
 Usually construction steel of a minimum quality S355 is used
- Plate thickness "B":
 Depends on stiffness of total construction. Plate thickness of connecting surface must be at least 40 mm
- Surface quality "C": Requisite mean roughness of the connecting surfaces is 6.3 µm

- Planeness "D":
 Maximum admissible planeness tolerance within every connecting surface is 0.05 mm
- Angular deviation error to vertical axis "E": Angle deviation of connecting surface to vertical axis in both planes of view must not exceed ± 2°
- Plane parallelism "F":
 Upper and lower connecting surfaces to the weighbeam have to be plane parallel to minimum 0.1 mm

Variant	Order No.		
DMR 15 t 0.1	V 000 522 .B01		
DMR 15 t C1	upon request		
DMR 15 t C2	upon request		
DMR 15 t	upon request		
2 channels			

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