# **SCHENCK**

## Weighbeam DWB 11.5 ... 25t



- Simple and economical installation through direct screwing onto the connecting structure
- Transmission of high interferential forces and moments at minimal impact on measurement value
- **■** Extremely low headroom
- Designed for rugged environment
- Suitable for construction of service free scales
- Option: HT-type for service temperature up to 120°C

### **Application**

- Silo and hopper scales
- Crane scales
- Rail weighbridges
- Scrap bucket, roller train, and tundish scales
- Platform scales

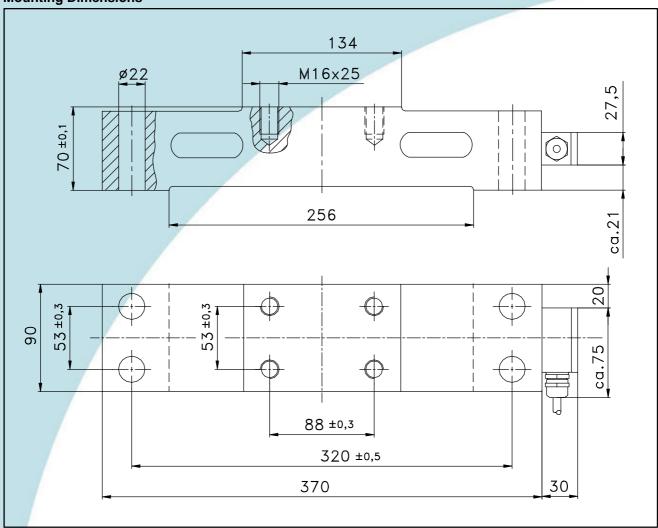
#### Construction

- Low and compact design
- Galvanized surface
- Protected to IP 67

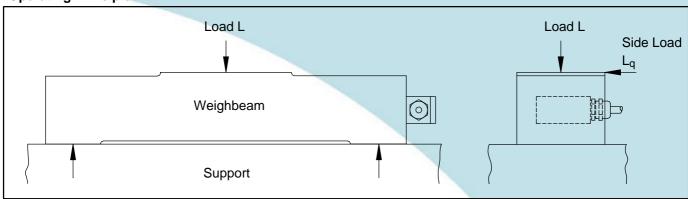
#### **Function**

- High degree of reliability and availability
- Virtually impervious to shock loads and unavoidable side forces
- No need for additional tie-rods and hold-downs

## **Mounting Dimensions**



## **Operating Principle**



### **Technical Data**

		DWB 11.5 t	DWB 15 t	DWB 25 t	Reference
Rated capacity	L <sub>n</sub>	11.5 t	15 t	25 t	
Limit load (with $L_q = 0.15xL_n$ )	Lı	23 t	26 t	35 t	
Rupture load (with $L_q = 0.15xL_n$ )	L <sub>d</sub>	35 t	38 t	40 t	
Max. admissible side load	L <sub>qmax</sub>	15 t	18 t	25 t	\
Sensitivity	C <sub>n</sub>	0.90 mV/V	1.16 mV/V	1.40 mV/V	L <sub>n</sub>
Combined error	F <sub>comb</sub>	± 0.15 %		C <sub>n</sub>	
Creep (30 m)	F <sub>cr</sub>	± 0.05 %		C <sub>n</sub>	
Input resistance	R <sub>e</sub>	378 Ω	378 Ω	756 Ω	Tr
Output resistance	Ra	350 Ω	350 Ω	700 Ω	Tr
Ref. supply voltage	U <sub>sref</sub>	10V		\	
Max. supply voltage	U <sub>smax</sub>	18V	18V	36V	1
Nominal temperature range	B <sub>tn</sub>	- 10°C to + 40°C		1	
Service temperature range	B <sub>tu</sub>	- 15°C to + 80°C (HT quality + 120°C)		V	
Reference temperature	Tr	+ 22°C		A	
Storage temperature range	B <sub>ts</sub>	- 30°C to + 85°C ( HT quality + 120°C)			
Temperature effect on zero signal	TK <sub>o</sub>	± 0.1% / 10K ( HT quality: ± 0.05%)		C <sub>n</sub> in B <sub>tu</sub>	
Temperature effect on sensitivity	TKc	± 0.07% / 10K ( HT quality: ± 0.05%)			
Dead weight	m <sub>e</sub>	18kg	18kg	18kg	4
Corrosion protection		hot dip galvanized			
Protection class		IP 67			1
Cable specification		silicone RAL 7000 (grey) Ø 6.5mm x 15m – 30°C to + 150°C			

- Material "A":
   Usually, construction steel of a minimum quality S355 is used
- Plate thickness "B":
   Plate thickness depends on total construction stiffness.
   Connecting surfaces plate thickness must be at least 40% of weighbeam height
- Surface quality "C":
   The requisite mean rough value of connecting surfaces is around 6.3µm
- Planeness "D":
   The maximum admissible tolerance of each contact surface is 0.05 mm

Angular error to vertical axle "E":

The connecting surface angle may differ from the vertical. axle in both planes of view by max. ± 2°

Plane parallelity "F":
 The upper and lower connecting surfaces to the weighbeam must be plane parallel to minimum 0.1 mm

Variants	Order No.
DWB 11.5 t	D 703 100.01
DWB 15 t	D 703 100.02
DWB 25 t	D 704 280.03

#### **Options:**

HT quality for service temperature up to 120°C

Variants	Order No.
DWB 11.5 t HT	D 703 100.04
DWB 25 t HT	D 704 280.05

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