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Product Description

Type UB6 is a stainless steel universal load cell which allows for tension and compression loading. Its complete hermetic sealing makes it suitable for use in harsh industrial environments.

Application

Crane scales and hanging scales, force measurement in material testing machines, cranes, lifts and other general tension applications

Key Features

- Capacities from 1 kN to 5 kN (102 kg to 510 kg)
- Stainless steel construction
- Environmental Protection IP68 with complete hermetic sealing
- High input resistance
- Calibration in mV/V/Ω

Approvals

- OIML approval to C3 (Y = 10200)
- NTEP approval to 5 000 intervals, Class III and 10 000 intervals, Class III L
- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval

Options

- Y = 20 400 for C3
- Stainless steel cable gland

Packed Weight

Capacity (kN) 1 2 5 Weight (kg) 1.0 1.0 1.1

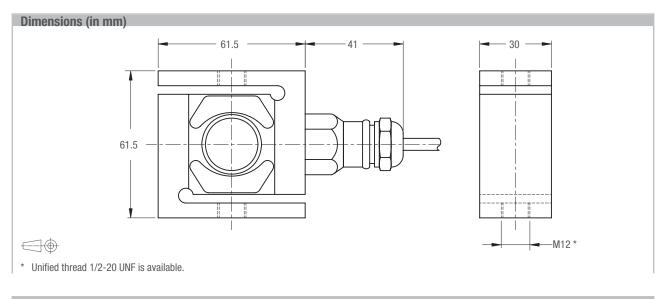
Available Accessories

- Compatible range of application hardware
- Compatible range of electronics

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Specifications					
Maximum capacity (E _{max}	kN	1 / 2 / 5			
Metric equivalents (1 N=0.10197 kg)	kg	102 / 204 / 510			
Minimum capacity (Emin	%*E _{max}	0			
Accuracy class according to OIML R60		(GP)	C1	C3	
Maximum number of verification intervals (nmax		n.a.	1 000	3 000	
Minimum load cell verification interval (vmin		n.a.	E _{max} /5100	E _{max} /10 200	
Temperature effect on minimum dead load output (TC ₀	%*R0/10°C	± 0.0400	± 0.0275	± 0.0137	
Temperature effect on sensitivity (TC _{RO}	%*R0/10°C	± 0.0200	± 0.0160	± 0.0100	
Combined error	%*R0	± 0.0500	± 0.0300	± 0.0200	
Non-linearity	%*R0	± 0.0400	± 0.0300	± 0.0166	
Hysteresis	%*R0	± 0.0400	± 0.0300	± 0.0166	
Creep error (30 minutes) / DR	%*R0	± 0.0600	± 0.0490	± 0.0166	
Option Min. load cell verification interval (vmin opt		n.a.	n.a.	E _{max} /20 400	
Temp. effect on min. dead load output (TC _{0 opt}	%*R0/10°C	n.a.	n.a.	± 0.0069	
Rated Output (RO	mV/V	2 ± 0.1%			
Calibration in mV/V/Ω (AI classified)	%	± 0.05 (± 0.005)			
Zero balance	%*R0	± 5			
Excitation voltage	V	515			
Input resistance (R _{LC}	Ω	1 100 ± 50			
Output resistance (Rout	Ω	1 000 ± 2			
Insulation resistance (100 V DC)	MΩ	≥ 5 000			
Safe load limit (E _{lim}	%*E _{max}	200			
Ultimate load	%*Emax	300			
Compensated temperature range	°C	-10+40			
Operating temperature range	°C	-40+80 (ATEX -40+60)			
Load cell material		stainless steel 17-4 PH (1.4548)			
Sealing		complete hermetic sealing; cable entry sealed by glass to metal header			
Protection according EN 60 529		IP68 (up to 2 m water depth) / IP69K			

The limits for Non-Linearity, Hysteresis, and TC_{R0} are typical values. The sum of Non-linearity, Hysteresis and TC_{R0} meets the requirements according to OIML R60 with $p_{LC}=0.7$.



Wiring

- The load cell is provided with a shielded, 4 conductor cable (AWG 24). Cable jacket polyurethane
- Cable length:
- Cable diameter: 5 mm
- The shield is floating (On request the shield can be connected to the load cell body)

6 m

