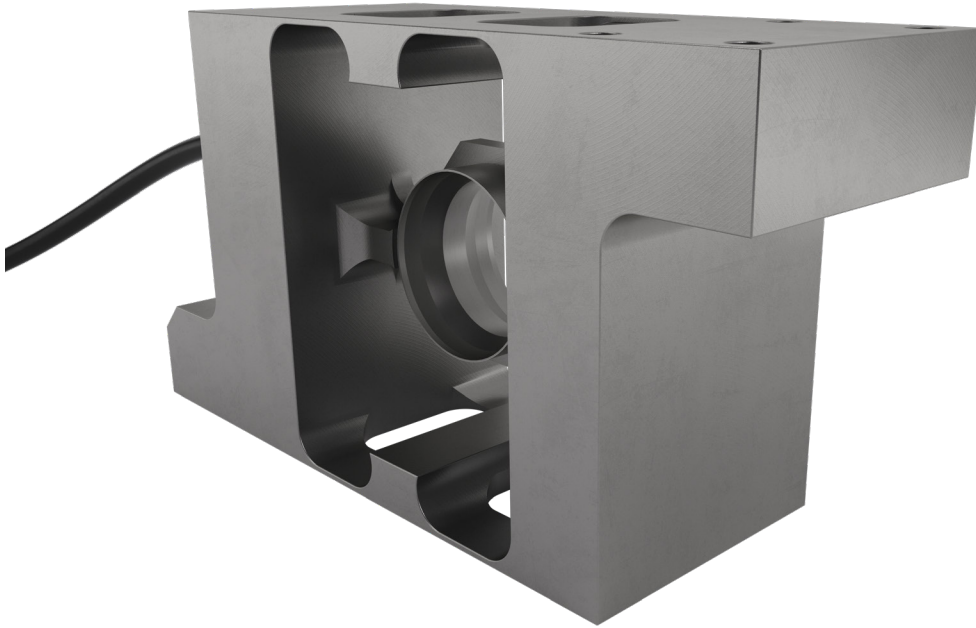


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# PC12 single point load cell



## product description

Optimised for dynamic weighing applications, the PC12 single-point load cell provides high weighing accuracy in a robust, durable design. Fully sealed and constructed from stainless steel, the PC12 is fully off-centre load adjusted to provide high accuracy weighing results in dynamic weighing such as high speed checkweighers. The PC12 is suitable for trade-approved applications, certified to OIML C3 standards.

## applications

High-speed checkweighers, multi-head weighers.

## approvals

OIML approval to C3 (Y = 20,000)

ATEX hazardous area approval for zones 0, 1, 2, 20, 21 and 22

## key features

Stainless-steel construction

Hermetically sealed to IP68

For platform up to 600 x 600mm

Developed for dynamic weighing

Capacity of 20kg

Trade-approved accuracy

## accessories

Compatible range of electronics



RoHS  
compliant



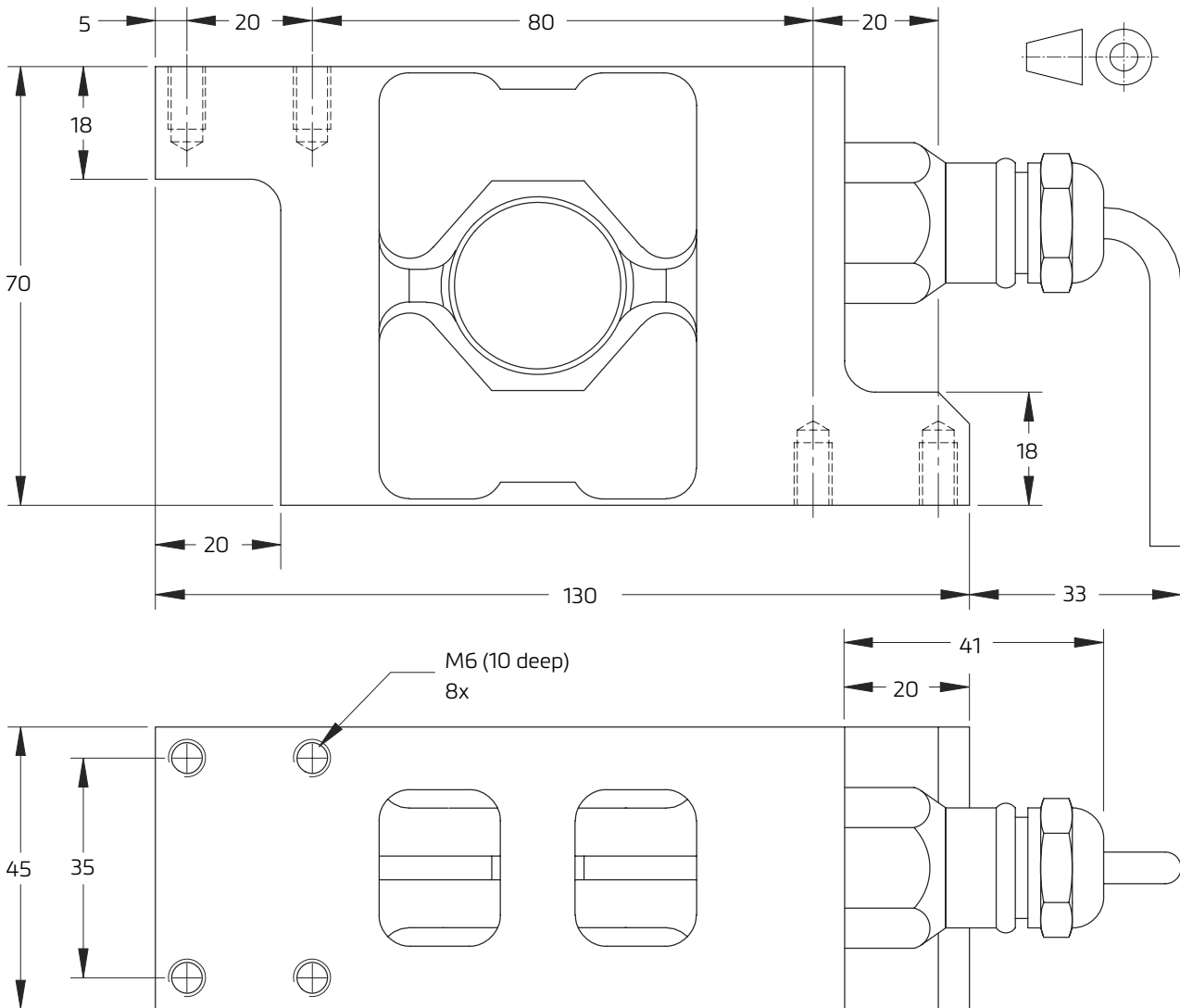
## specifications

Maximum capacity ( $E_{max}$ )	kg	20	
Accuracy class according to OIML R60	-	(GP)	C3
Maximum number of verification intervals ( $n_{LC}$ )	-	n.a.	3,000
Minimum load cell verification interval ( $v_{min}$ )	-	n.a.	$E_{max} / 20,000$
Temperature effect on minimum dead load output ( $TC_0$ )	%*RO/10°C	± 0.0400	± 0.0070
Temperature effect on sensitivity ( $TC_{RO}$ )	%*RO/10°C	± 0.0200	± 0.0100
Combined error	%*RO	± 0.0500	± 0.0200
Non-linearity	%*RO	± 0.0400	± 0.0166
Hysteresis	%*RO	± 0.0400	± 0.0166
Creep error (30 minutes) / DR	%*RO	± 0.0600	± 0.0166
Rated Output (RO)	mV/V	2 ± 5%	
Zero balance	%*RO	± 5	
Excitation voltage	V	5...15	
Input resistance ( $R_{LC}$ )	Ω	1,100 ± 50	
Output resistance ( $R_{out}$ )	Ω	960 ± 50	
Insulation resistance (100 V DC)	MΩ	≥ 5,000	
Safe load limit ( $E_{lim}$ )	%* $E_{max}$	200	
Ultimate load	%* $E_{max}$	300	
Safe side load	%* $E_{max}$	100	
Maximum platform size; loading acc. to OIML R76	mm	600 x 600	
Maximum off centre distance at maximum capacity	mm	200	
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	
Packet weight	kg	1.6	

The limits for Non-Linearity, Hysteresis, and  $TC_{RO}$  are typical values.

The sum of Non-linearity, Hysteresis and  $TC_{RO}$  meets the requirements according to OIML R60 with  $p_{LC}=0.7$ .

## product dimensions (mm)



Mounting bolts M6 8.8; torque 10 Nm. Torque value assumes oiled threads.

## wiring

The load cell is provided with a shielded, 6 conductor cable (AWG 26).

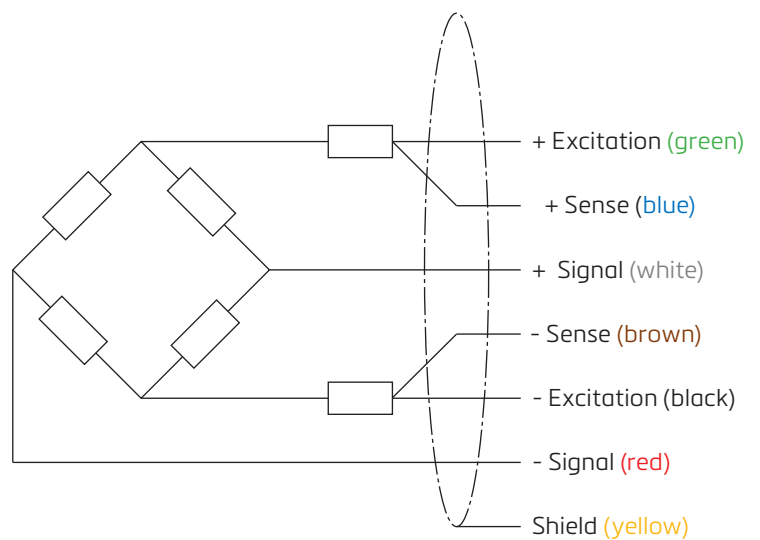
Cable jacket: polyurethane

Cable length: 3m

Cable diameter: 5mm

The shield is floating

On request the shield can be connected to the load cell body



Specifications and dimensions are subject to change without notice.