





#### **Product Description**

The type PC6D is the digital version of the type PC6 single point load cell with complete hermetic sealing. It is a perfect fit for use in harsh industrial environments and wash down applications.

Type PC6D is specifically designed for dynamic weighing processes like filling and check weigher applications. The CANopen interface provides an easy connection to computer, PLC and other systems.

For Typ PC6D there are 2 firmware versions available.

Default firmware: "Automatic Weighing Controller" for dynamic weighing in check weighers or multi head scales.

Optional firmware: "Fluid Filling Controller" for dosing processes of fluids, pellets or powder.

### Application

 Bench scales, conveyor scales, check weighers, packaging machines and industrial process control

#### Options

- 2 Firmware versions
- Base plate with overload stop

## Key Features

- Capacity of 20 kg
- Stainless steel construction
- Environmental Protection IP68 with complete hermetic sealing
- Digital load cell with built-in microcontroller, A/D conversion and selectable digital filtering
- CANopen interface with switchable bus termination
- Max. conversion rate up to 1 200/s
- 1 software trigger and 4 software setpoints
- Firmware download
- Maximum platform size up to 450 x 450 mm
- Integral mounting spacer

#### Approvals

OIML approval in preparation

Packed Weight

1.4 kg

# **FLINTEC**

Specifications		
Maximum capacity (E <sub>max</sub> )	kg	20
Accuracy class according to OIML R60		С3
Maximum number of verification intervals (n <sub>LC</sub> )		3 000
Minimum load cell verification interval (v <sub>min</sub> )		E <sub>max</sub> /20 000
Temperature effect on minimum dead load output (TC <sub>0</sub> )	%*R0/10°C	$\leq \pm 0.0070$
Temperature effect on sensitivity (TC <sub>R0</sub> )	%*R0/10°C	$\leq \pm 0.0100$
Combined error	%*R0	$\leq \pm 0.0200$
Non-linearity	%*R0	$\leq \pm 0.0166$
Hysteresis	%*R0	$\leq \pm 0.0166$
Creep error (30 minutes) / DR	%*R0	$\leq \pm 0.0166$
Rated Output (RO)	counts	$\pm 200000$
Power supply	V DC	1224 ± 10% / 32 mA
Switch on current	mA	< 100
Conversion rate		11 200 measurements/s
Digital filter		FIR filter 2.5 to 19.7 Hz / IIR filter 0.25 to 18 Hz; programable in 8 steps
CANopen interface		Standard CiA DS301 / 10 k1 Mbit/s
Max. cable length	m	$\leq$ 25 at 1 Mbit/s   $\leq$ 100 at 500 kbit/s
Bus termination resistor		switchable
EMC		CE 73/23/EEC, 93/98/EEC and 89/336/EEC
Safe load limit		200
Ultimate load	%*E <sub>max</sub>	300
Safe side load	%*E <sub>max</sub>	100
Maximum platform size; loading acc. to OIML R76	mm	450 x 450
Maximum off centre distance at maximum capacity	mm	150
Compensated temperature range	°C	-10+40
Operating temperature range	°C	-10+50
Storage temperature range	°C	-20+75
Load cell material		stainless steel 17-4 PH (1.4548)
Sealing		complete hermetic sealing
Protection according DIN 40.050		IP68

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



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

## Wiring

- The load cell is provided with a shielded, 2x twisted pair cable (AWG 28). Cable jacket PVC.
- Cable length: 6 m
- Cable diameter: 5.6 mm
- The shield is connected to the load cell body



A141-Rev2-GB-2(2) Specifications and dimensions are subject to change without notice.