







Product Description

Flintec Force Transducers are designed to meet the most stringent accuracy requirements. The CT3 *Precision* shear web metric series force transducers offer the following items.

Key Features

- Capacities: 1.5 kN to 450 kN
- High accuracy (0.02-0.04 %)
- Low height
- First choice for structural and materials testing
- Guaranteed maximum off-centre load and moment error
- Low creep
- Low susceptibility to magnetic fields
- Barometric pressure compensated
- Temperature compensated
- Output up to 4 mV/V
- Bayonet connector
- Protection IP 67

Options

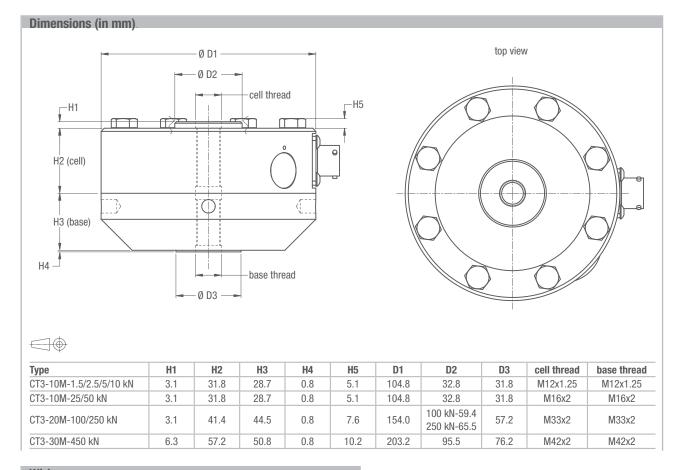
- Additional bridges
- Output adjustment to standard
- Compression overload protection
- Integral cable
- Custom connectors
- Imperial versions available

Available Accessories

- Mating connector
- Loading fixtures
- Interconnection cable
- Shunt calibration connector
- Instrumentation



Specifications							
MODEL			CT3-10M-	CT3-10M-	CT3-20M-	CT3-30M-	
Maximum capacity	(E _{max})	kN	1.5 / 2.5 / 5 / 10	25 / 50	100 / 250	450	
ACCURACY							
Static error band		%*R0	≤ ± 0.02	≤ ± 0.03	≤ ± 0.04	≤ ± 0.05	
Non-linearity		%*R0	≤ ± 0.03	$\leq \pm 0.04$ $\leq \pm 0$		≤ ± 0.05	
Hysteresis		%*R0	≤ ± 0.02	$\leq \pm 0.04$ $\leq \pm 0.0$		≤ ± 0.05	
Non-repeatability		%*R0	≤ ± 0.01				
Creep error (20 minutes)		%*R0	≤ ± 0.03				
Off-centre load sensitivity		%*R0/cm	≤ ± 0.04	≤ ± 0.25			
Side load sensitivity		%*R0	≤ ± 0.1	≤ ± 0.25			
Zero balance		%*R0	≤ ± 1.0				
TEMPERATURE							
Compensated temperature range		°C	-10+45				
Operating temperature range		°C	−55+90				
Temperature effect on sensitivity	(TC _{LC})	%*of reading/°C	$\leq \pm 0.0015$ $\leq \pm 1.0$				
Temperature effect on zero	(TC ₀)	%*R0/°C	≤ ± 0.0027				
ELECTRICAL							
Rated Output	(R0)	mV/V	2 ± 10%	2 ± 10% 4 ± 10%			
Excitation voltage		V	recommended 10, max. 20				
Input resistance	(R _{LC})	Ω	350 +40/-3.5				
Output resistance	(Rout)	Ω	350 ± 3.5				
Insulation resistance (50 V DC)		MΩ	≥ 5000				
MECHANICAL							
Safe load limit	(E _{lim})	%*E _{max}	150				
Weight		kg	1.2	3	10	24	
Flexure material			aluminium steel				
Protection according DIN 40.050			IP 67				



Wiring

 \blacksquare The force transducer is provided with a bayonet connector.