Features

- Capacities 5tf – 20tf.
- Accuracy ±0.023%.
- IP68 rating.

Applications

- Lifting devices.
- Hanging scales.
- Static or dynamic testing.

Description

The T-TL-T20 is a load cell designed for the measurement of static or dynamic loads in tension. Offering high mechanical resistance, the T20 is produced from stainless steel with a fully laser welded finish for IP68 protection. The T20 is ideal for cranes and other lifting applications.

Typical Specification

PARAMETER	VALUE		UNITS
Capacities Range *(Emax)*	5, 7.5, 10, 15, 20		tf
Combined Error	≤0.023		±% of Rated Output
Non-Repeatability	≤0.014		±% of Rated Output
Zero Return OVER 30 MINUTES	≤0.030		±% of Applied Load
Creep at Nominal Load OVER 30 MINUTES	≤0.024		±% of Applied Load
Creep at Nominal Load OVER 20 & 30 MINUTES	≤0.011		±% of Applied Load
Temperature Effect ON ZERO	≤0.028		±% of Rated Output/°C
Temperature Effect ON OUTPUT	≤0.008		±% of Rated Output/°C
Rated Output	2		mV/V
Sensitivity Tolerance	≤0.1		±% of Rated Output
Input Impedance	420 ±20		Ω
Output Impedance	350 ±2		Ω
Insulation Resistance	>5		GΩ
Zero Balance	≤1		±% of Rated Output
Excitation RECOMMENDED	10		Volts AC or DC
Excitation NOMINAL	1-15		Volts AC or DC
Excitation MAXIMUM	18		Volts AC or DC
Mechanical Limit SERVICE LOAD	120		% of Rated Output
Mechanical Limit SAFE OVERLOAD	150		% of Rated Output
Mechanical Limit ULTIMATE OVERLOAD	>300		% of Rated Output
Mechanical Limit MAX. TRANSVERSE LOAD	200		% of Rated Output
Mechanical Limit MAX. DYNAMIC LOAD	50		% of Rated Output
Displacement at Nominal Load	~0.3		mm
Temperature Range OPERATING	-20 to +70		°C
Temperature Range STORAGE	-20 to +80		°C
Cable Length	5		m
Sensor Construction Material	Stainless Steel		-
Environmental Protection	IP68 *(100 HOURS AT 1M WATER COLUMN)*		-
Weight	~4.4	~7	KG

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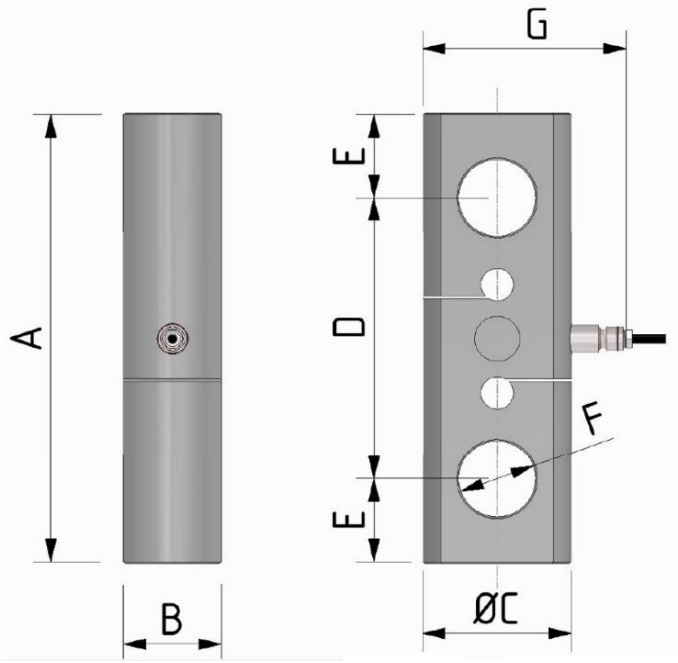
Outline Dimensions in millimetres



If the dimensions or specification do not suit, PCM has an in-house design team that should be able to satisfy your requirements.

CAPACITY (tf)	ORDERING CODE	A	B	ØC	D	E	F(1)	G
5	CT205TC25	200	45	76	130	35	33	103
7.5	CT207T5C25							
10	CT2010TC25							
15	CT2015TC25	250	54	82	156	47	42.5	109
20	CT2020TC25							

(1) Connection holes for standard shackles.

Accessories

CAPACITY (tf)	DESCRIPTION (2)	ORDERING CODE
5	15tf Rated Shackle	Crosby G209A-1017604
7.5		
10		
15	21tf Rated Shackle	G209A-1017648
20		

(2) Shackles are safety coefficient 5. The T20 load cell has a mechanical factor of safety of 3:1.

Connector Options

	ORDERING CODE	DESCRIPTION
	CONNM12MF + CONNM12FV5	Direct M12 output connector. Female 5 poles straight M12x1 connector complete with 3m PVC shielded cable.

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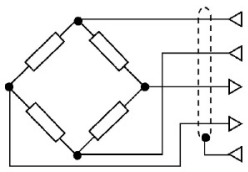
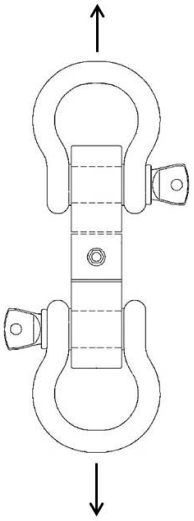
Wiring Details

	OUTPUT	CABLE	M12 OPTION
	EXCITATION+	RED	1
	EXCITATION-	BLACK	3
	OUTPUT+	WHITE	2
	OUTPUT-	YELLOW	4
	----------	SHIELD (3)	5

(3) *Shield connected to the body of the transducer.*

Loading Mode



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