

SM-TCE

HIGH CAPACITY TENSION COMPRESSION LOAD CELL

Accessories

A



WIMOD

Trasmissione **WIRELESS**
WIRELESS transmission

OPTION  **II 2 G Ex ib IIC T6**
II 2 D Ex ibD 21 T70°C
Certificate: TÜV 06 ATEX 553026 X



≤ ±0.03%
Linearity - Hysteresis

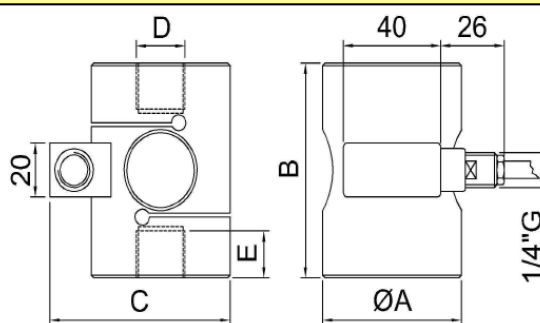


Dimensions

[mm]



CODE	LOAD	ØA	B	C	D	E
CTCE57350K5	350 kg	57	80	74.5	M20X1.5	17
CTCE57500K5	500 kg					
CTCE571TK5	1 t					
CTCE572T55	2.5 t					
CTCE575T5 ⁽¹⁾	5 t	82	110	102	M30X2	20
CTCE825T5	5 t					
CTCE827T55	7.5 t					
CTCE8210T5	10 t	82	150	102	M42X3	30
CTCE8220T5	20 t					



Technical Data

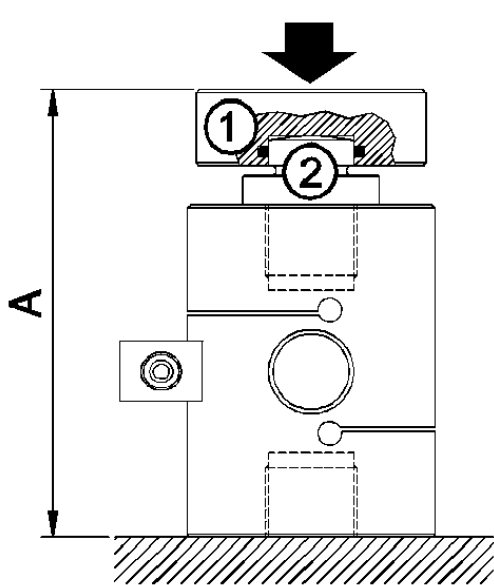
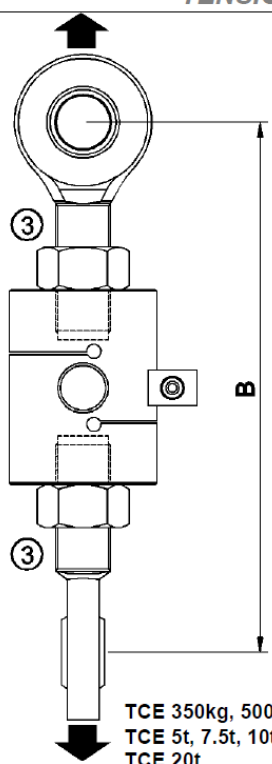


NOMINAL LOAD	350 - 500 kg 1 - 2.5 - 5 ⁽¹⁾ - 7.5 - 10 - 20 t
NOMINAL SENSITIVITY	2mV/V
SENSITIVITY TOLERANCE	≤ ±0.1%
TEMPERATURE EFFECT (10 °C)	
a) on zero	≤ ±0.030%
b) on sensitivity	≤ ±0.011%
LINEARITY	≤ ±0.03%
HYSTERESIS	≤ ±0.03%
REPEATABILITY	≤ ±0.01%
INPUT RESISTANCE	420 ± 20Ω
OUTPUT RESISTANCE	350 ± 2Ω
INSULATION RESISTANCE	>5 GΩ
ZERO BALANCE	≤ ±1%
RECOMMENDED SUPPLY VOLTAGE	10 V
NOMINAL SUPPLY VOLTAGE	1-15 V
MAXIMUM SUPPLY VOLTAGE	18 V
MECHANICAL LIMIT VALUES REFERRED TO NOMINAL LOAD :	
a) service load	120%
b) max permissible load	150%
c) breaking load	>300%
d) max transverse load	50%
e) max permissible dynamic load	50%
DISPLACEMENT AT NOMINAL LOAD	~ 0.3 mm
REFERENCE TEMPERATURE	+23°C
TEMPERATURE NOMINAL RANGE	-10/+40 °C
SERVICE TEMPERATURE	-20/+70 °C
STORAGE TEMPERATURE	-20/+80 °C
WEIGHT	Ø57:~1.5 kg Ø82:~4.2 kg 20t:~5kg
PROTECTION CLASS (EN 60529)	IP67
EXECUTION MATERIAL	Stainless Steel
CABLE LENGTH	5 m
RECOMMENDED KNUCKLE JOINTS	DURBAL EM20 - EM30



⁽¹⁾ The load cell 5t Ø57 is guaranteed in **TENSIONION** up to 2.5t.

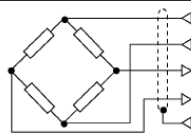
Applications

COMPRESSION	TENSION
	
TCE 350kg, 500kg, 1t, 2.5t, 5t A = 117 mm TCE 5t, 7.5t, 10t A = 149 mm TCE 20t A = 198 mm	TCE 350kg, 500kg, 1t, 2.5t B = ~200mm TCE 5t, 7.5t, 10t B = ~300mm TCE 20t B = ~420mm
WARNING: Cable weight can influence measurement, it is therefore recommended to place it at the opposite site of the load.	

Accessories

TCE:	CODE:		ACCESSORIES (optional):
350kg, 500kg 1t, 2.5t, 5t	CTIC22	①	Loading head.
	CTS25M20	②	Spherical loading head.
	CACCEM20	③	Knuckle joints.
5t, 7.5t, 10t	CTIC28	①	Loading head.
	CTS45M30	②	Spherical loading head.
	CACCEM30	③	Knuckle joints.
20 t	CTIC35	①	Loading head.
	CTS62M42	②	Spherical loading head.
	CACCEM42	③	Knuckle joints.

Electrical Connections

Load Cell	OUTPUT	CABLE	M12 connector (OPTION)	OPTION with M12:
	EXCITATION+ EXCITATION - OUTPUT+ OUTPUT-	Red Black White Yellow Shield	1 3 2 4 5	Female 4 poles straight M12x1 CONNECTOR complete PVC molded CABLE, shielded, length: 3m .

PVC 105°C shielded cable, Ø5.2mm with 4 tinned Ø0.35mm² conductors. Shield connected to the body of the load cell.

SENSEL MEASUREMENT

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