

COMPRESSION LOAD CELL



- STAINLESS STEEL
- IP67 PROTECTION RATING
- COMBINED ERROR $\leq \pm 0.28 \%$



NOMINAL LOAD (FS)

kg	kN	Net weight (kg)	Combined error		
50	0.5	0,2	$\leq \pm 0.28 \%$	•	•
100	1	0,2	$\leq \pm 0.28 \%$	•	•
250	2.5	0,2	$\leq \pm 0.28 \%$	•	•
500	5	0,2	$\leq \pm 0.28 \%$	•	•
1000	10	0,2	$\leq \pm 0.28 \%$	•	•
2500	25	0,2	$\leq \pm 0.28 \%$	•	•
3500	35	0,2	$\leq \pm 0.28 \%$	•	•
5000	50	0,2	$\leq \pm 0.28 \%$	•	•



TECHNICAL DATA

PRECISION

Nominal sensitivity	4-20mA (2 wires) or 0,5...10,5V
Sensitivity tolerance	$< \pm 1.0 \%$
Combined error	$\leq \pm 0.28 \%$ FS
Non-linearity	$\leq \pm 0.20 \%$ FS
Hysteresis	$\leq \pm 0.20 \%$ FS
Repeatability	$\leq \pm 0.05 \%$ FS
Creep	$\leq \pm 0.1 \%$ FS (at 30 min FS)
Temperature coefficient on zero	$\leq \pm 0.030 \%$ FS
Temperature coefficient on span	$\leq \pm 0.025 \%$ FS
Compensated temperature range	-10...+40 °C
Operating temperature range	-20...+70 °C
Reference Temperature	23 °C

ELECTRICAL PROPERTIES

Loading resistance:	a) tension: min. 3K Ω
	b) current: from 0 to 470 Ω
Insulation resistance	$\geq 2G\Omega$ at 100 V
Max. Power supply	28 Vdc
Cable diameter	4.2 mm
Cable length	3 m

MECHANICAL PROPERTIES

Material	STAINLESS STEEL
Deflection at FN	~ 0.4 mm

MECHANICAL LIMITS

Service load	120 %FS	Load without any permanent deformation or change in calibration.
Safe overload	150 %FS	The highest static load that may be applied once or briefly without mechanical damage.
Breaking load	> 300 %FS	Load at which permanent deformation or mechanical failure (fracture) occurs.
Max. transverse load (side)	50 %FS	Maximum lateral or shear load that can be applied (e.g. due to misalignment or friction).
Max. permissible dynamic load	50 %FS	For cyclic or oscillating loads, the amplitude should not exceed this load to prevent fatigue failure.

ELECTRICAL CONNECTIONS

AMPLIFIED OUTPUT	4 - 20 mA 2 wires	0.5 ...10.5 Volt

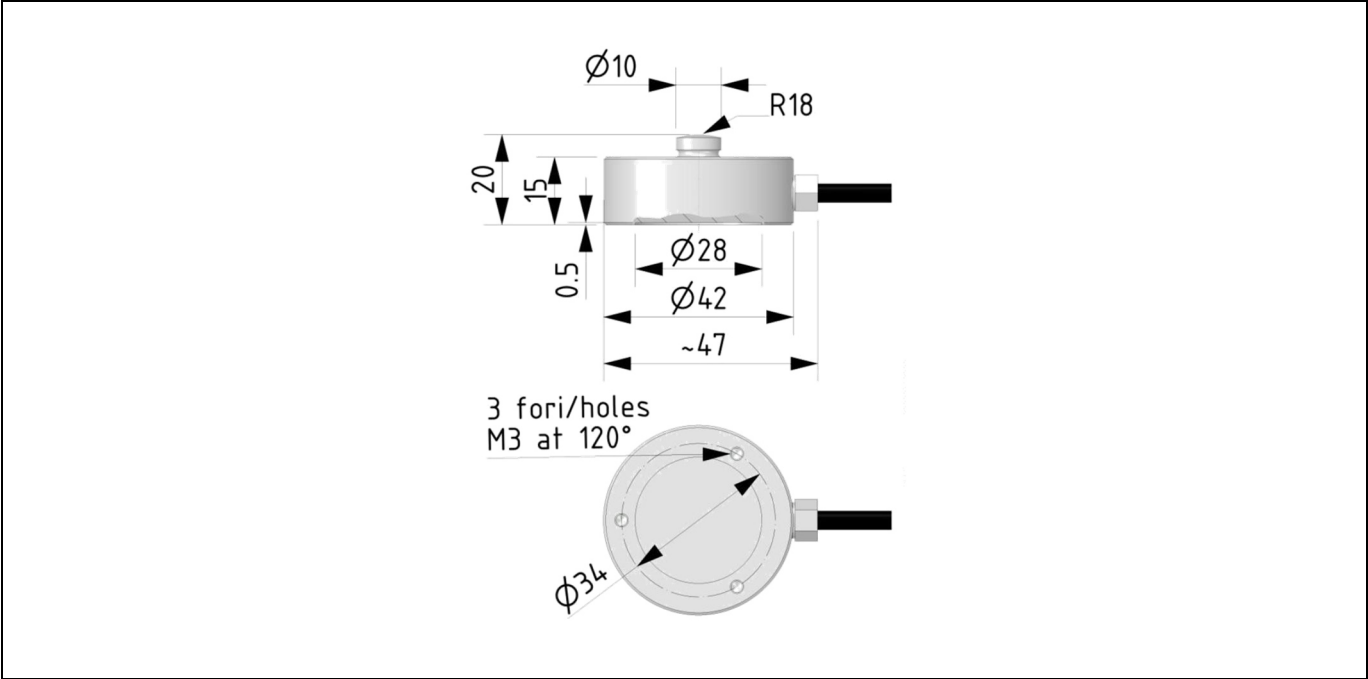
PVC 70°C shielded cable, $\varnothing$ 4.2mm with 4 tinned $\varnothing$ 0.14mm² conductors. Shield connected to the body of the transducer.



WARNING: Protect POWER+ by using an external 100 to 200mA fast-blow fuse



DIMENSIONS (mm)



COMPLIANCE AND CERTIFICATION

Protection Rating	IP67
Compliance	CE, RoHS, REACH
Calibration	Factory-calibrated, ISO 17025 calibration available on request
HS-CODE	9031.80.80
Certifications (on request)	 Accredia traceable calibration report

ACCESSORIES

CTICCM42

- CTICCM42: for $\varnothing 42$ force transducer

