

# Miniature type CM085

2023/03/22

## Features



High accurate, compact and thin type load cell.  
Equipped with stopper for overload protection.  
The main body can be fixed with the screw.

## Specification

Specification name	Specification contents
Rated capacity	2N~2kN
Safe overload	150 %R.C.
Ultimate overload	300 %R.C.
Rated output	1.0 mV/V±0.5 mV/V
Non-linearity	0.08 %R.O. (2 N~200 N), 0.10 %R.O. (500 N, 1 kN), 0.15 %R.O. (2 kN)
Hysteresis	0.08 %R.O. (2 N~200 N), 0.10 %R.O. (500 N, 1 kN), 0.15 %R.O. (2 kN)
Repeatability	0.08 %R.O. (2 N~200 N), 0.10 %R.O. (500 N, 1 kN), 0.15 %R.O. (2 kN)
Excitation, recommended	6 V or less
Zero balance	±0.25 mV/V
Input resistance	750 Ω±10 Ω
Output resistance	750 Ω±5 Ω
Insulation resistance	1.000 MΩ or more (DC50 V) (between bridge and main body)

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Temp. range, compensated	0 °C ~ 60 °C
Temp. range, safe	-10 °C ~ 70 °C
Temp. effect on zero	0.3 %R.O./10 °C
Temp. effect on output	0.1 %LOAD/10 °C
Class of protection	IP40 or equivalent
Material of element	Aluminium (CM085-2 N~200 N), Stainless steel (CM085-500 N or more)
Durability	1,000,000 times with rated load applied.

## Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kN]	Weight(Approx.) [g]	Natural frequency [Hz]	Rated displacement [mm]	Cable
CM085-2N	2		15	3900	0.02	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
CM085-5N	5		15	5800	0.02	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
CM085-10N	10		15	8500	0.02	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
CM085-20N	20		15	10700	0.012	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
CM085-50N	50		15	15900	0.012	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
CM085-100N	100		15	20500	0.012	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
CM085-200N	200		15	25600	0.012	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
CM085-500N	500		35	18000	0.013	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
CM085-1KN		1.0	35	22600	0.013	φ1.8, 4-cores shielded 3 m cable directly attached, cable end is separated.
						φ1.8, 4-cores shielded 3 m cable

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CM085-2KN	2.0	35	24900	0.013	4.107. For series CM085-2KN cable directly attached, cable end is separated.

Parts No.	3D CAD files [STEP]	CAD files[DXF]
CM085-2N	<a href="#">CM085-2N.STEP</a>	<a href="#">cm085.dxf</a>
CM085-5N	<a href="#">CM085-5N.STEP</a>	<a href="#">cm085.dxf</a>
CM085-10N	<a href="#">CM085-10N.STEP</a>	<a href="#">cm085.dxf</a>
CM085-20N	<a href="#">CM085-20N.STEP</a>	<a href="#">cm085.dxf</a>
CM085-50N	<a href="#">CM085-50N.STEP</a>	<a href="#">cm085.dxf</a>
CM085-100N	<a href="#">CM085-100N.STEP</a>	<a href="#">cm085.dxf</a>
CM085-200N	<a href="#">CM085-200N.STEP</a>	<a href="#">cm085.dxf</a>
CM085-500N	<a href="#">CM085-500N.STEP</a>	<a href="#">cm085.dxf</a>
CM085-1KN	<a href="#">CM085-1KN.STEP</a>	<a href="#">cm085.dxf</a>
CM085-2KN	<a href="#">CM085-2KN.STEP</a>	<a href="#">cm085.dxf</a>