

5 SERIES R02 FORCE SENSORS



5.1 Unpacking and Assembly

Carefully remove the sensor from the box. No assembly is required.

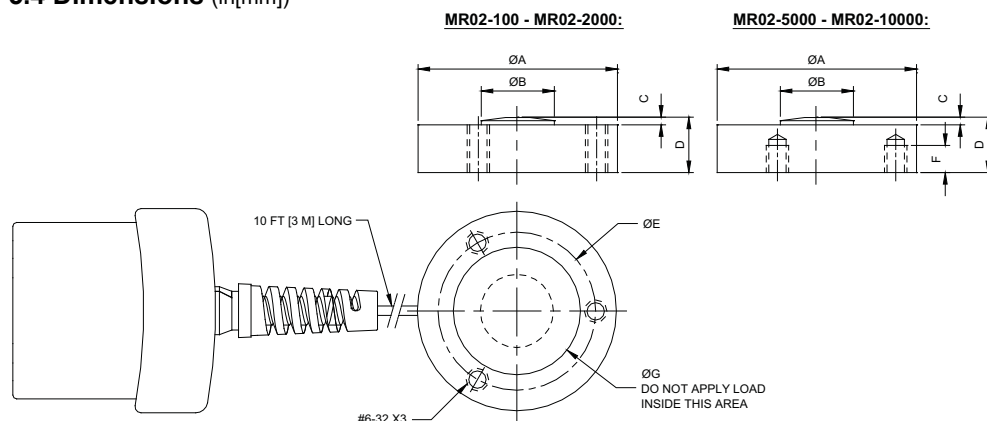
5.2 Overview

Compression force may be applied to the button in the center of the top surface of the sensor (visible in the picture above). **DO NOT** apply load to the cover on the underside of the sensor. Threaded holes are supplied to permit mounting to various surfaces.

5.3 Specifications

Accuracy:	±0.5% of full scale
Safe overload:	150% of full scale
Operating temperature:	40°F – 100°F [5°C – 38°C]
Operating humidity:	96% max. (non-condensing)
Weight:	MR02-100 - MR02-2000: 0.3 lb [0.1 kg] MR02-5000 - MR02-10000: 0.5 lb [0.2 kg]

5.4 Dimensions (in[mm])



Model	ØA	ØB	C	D	ØE	F	ØG
MR02-100 – MR02-2000	1.25 [31.8]	0.32 [8.1]	0.05 [1.3]	0.39 [9.9]	1.0 [25.4]	-	0.83 [21.1]
MR02-5000 – MR02-10000	1.50 [38.1]	0.43 [10.9]	0.07 [1.8]	0.62 [15.8]	1.25 [31.8]	0.25 [6.4]	1.08 [27.4]

5.5 Capacity x Resolution

Model No.	With Model 7i / 5i Indicator						With Model 3i Indicator			
	lbF	ozF	gF	kgF	N	kN	lbF	kgF	N	kN
MR02-100	100 x 0.05	1600 x 1	50000 x 20	50 x 0.02	500 x 0.2	-	100 x 0.1	50 x 0.05	500 x 0.5	-
MR02-200	200 x 0.1	3200 x 2	-	100 x 0.05	1000 x 0.5	1 x 0.0005	200 x 0.2	100 x 0.1	1000 x 1	-
MR02-500	500 x 0.2	8000 x 5	-	250 x 0.1	2500 x 1	2.5 x 0.001	500 x 0.5	250 x 0.2	2500 x 2	-
MR02-1000	1000 x 0.5	16000 x 10	-	500 x 0.2	5000 x 2	5 x 0.002	1000 x 1	500 x 0.5	5000 x 5	-
MR02-2000	2000 x 1	32000 x 20	-	1000 x 0.5	10000 x 5	10 x 0.005	2000 x 2	1000 x 1	10000 x 10	-
MR02-5000	5000 x 2	-	-	2500 x 1	25000 x 10	25 x 0.01	5000 x 5	2500 x 2	-	25 x 0.02
MR02-10000	10000 x 5	-	-	5000 x 2	50000 x 25	50 x 0.02	10000 x 10	5000 x 5	-	50 x 0.05