

Linearità - Isteresi
≤±0.20%
Linearity - Hysteresis

Linearità - Isteresi
≤±0.10%
Linearity - Hysteresis

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CE RoHS

SOLLECITAZIONI DINAMICHE
DYNAMIC STRESSES

€ LOW COST

ORARIO
ANTIORARIO
CLOCKWISE
ANTI-CLOCKWISE

Alta Affidabilità
High Reliability

Stabilità a lungo termine
Long term high stability



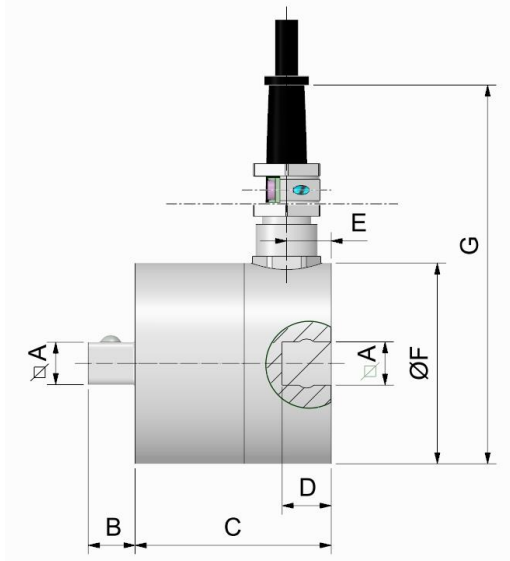
ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAT N° 093
Calibration Centre
The products are NOT covered by accreditation

Certificato di Taratura ACCREDIA
A RICHIESTA

ACCREDIA Calibration Certificate
ON REQUEST

Dimensions [mm]



CODE	LOAD	■A	B	C	D	E	F	G
⁽¹⁾ MTRS05NM	0.5 N·m	1/4"	7.5	44	8	10	45	85
⁽¹⁾ MTRS2.5NM	2.5 N·m	1/4"	7.5	44	8	10	45	85
MTRS5NM	5 N·m	1/4"	7.5	44	8	10	45	85
MTRS10NM	10 N·m	1/4"	7.5	44	8	10	45	85
MTRS25NM	25 N·m	3/8"	10.5	44	11	10	45	85
MTRS50NM	50 N·m	3/8"	10.5	44	11	10	45	85
MTRS100NM	100 N·m	1/2"	15.0	44	16	10	45	85
MTRS250NM	250 N·m	1/2"	15.0	44	16	10	45	85
MTRS500NM	500 N·m	3/4"	22.5	53.5	24	17.5	51	91
MTRS1KNM	1000 N·m	3/4"	22.5	53.5	24	17.5	51	91

ACCREDIA certification can NOT be performed by LAT n° 93 Laboratory, on request it can be ordered to other Accredited Laboratories.

Technical Data

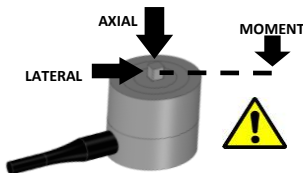


STATIC NOMINAL TORQUE	0.5* – 2.5 N·m 5 – 10 – 25 – 50 – 100 N·m 250 – 500 – 1000 N·m
LINEARITY and HYSTERESIS	$\leq \pm 0.20 \%$ (see options)
TEMPERATURE EFFECT (1°C): a) on zero b) on sensitivity	$\leq \pm 0.02\%$ $\leq \pm 0.02\%$
NOMINAL SENSITIVITY SENSITIVITY TOLERANCE	2mV/V (*0.5N·m: 1mV/V) $\leq \pm 0.5\%$
Input resistance Output resistance	825 \pm 50 Ω 700 \pm 2 Ω
NOMINAL POWER SUPPLY MAX. POWER SUPPLY INSULATION RESISTANCE ZERO BALANCE	1-15V 18V >2 G Ω $\leq \pm 1\%$
LIMIT MECHANICAL VALUES REFERRED TO NOMINAL TORQUE : a) service torque b) max. permissible torque c) breaking torque d) highly dynamic torque	100% 150% >300% 70%
REFERENCE TEMPERATURE WORKING TEMPERATURE RANGE STORAGE TEMPERATURE RANGE	+23°C -10/+70°C -20/+80°C
PROTECTION CLASS (EN 60529) SENSOR EXECUTION MATERIAL ELECTRICAL CONNECTION	IP40 INOX 17-4 PH Cavo / Cable 5m
PROCESS COUPLING (UNI ISO 1174-1): 0.5 - 2.5 – 5 - 10 N·m 25 - 50 N·m 100 – 250 N·m 500 – 1000 N·m	■ 1/4" ■ 3/8" ■ 1/2" ■ 3/4"

Options:

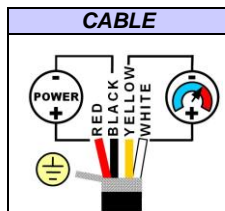
LINEARITY and HYSTERESIS $\leq \pm 0.10 \%$

	NOMINAL TORQUE	N·m	0.5	2.5	5	10	25	50	100	250	500	1000
	<i>Max axial permissible load</i>	kN	0.38	0.38	0.5	0.9	2.2	3.5	6	9.5	18	28
	<i>Max lateral permissible load</i>	N	15	15	15	30	30	80	150	180	250	400
	<i>Bending limit moment</i>	N·m	1	1	1.5	3.5	4.5	15	20	42	65	170



For correct measurement both axial and transverse forces and bending moment should be absent. In case of presence, they must not be greater than values indicated below, to be reduced in simultaneous presence of more solicitations.

Electrical Connections



PVC 105°C shielded cable, $\varnothing 5.2\text{mm}$ with 4 tinned $\varnothing 0.35\text{mm}^2$ conductors. Shield connected to the body of the torque meter.