

AT104 COMPACT SIZE FORCE/TORQUE TRANSDUCER (U.S. & METRIC)

FEATURES & BENEFITS

- Capacities from 20/0.1 & 50/0.5 N/Nm (4.5/0.89 & 11.2/4.4 lbf/lbf-in)
- Reaction torque/force sensor, non-rotating
- Very short axial length
- Reliable and durable
- Simple handling and assembly
- Side cable exit

SPECIFICATIONS

ACCURACY – (MAX ERROR)			
Capacities		20/0.1	50/0.5
Nonlinearity – Torque %FS		± 0.2	
Hysteresis – Torque %FS		± 0.2	
Nonrepeatability – %RO		± 0.1	
Crosstalk – %FS		< 1	
Creep, in 30 min – %		± 0.1	
TEMPERATURE			
Effect on Zero – %RO / deg	°C	± 0.02	
Effect on Output – % / deg	°C	± 0.02	
Compensated Range	°C	-5 to +45	
	°F	+23 to +113	
Operating Range	°C	-15 to +55	
	°F	+5 to + 131	
ELECTRICAL			
Output – mV/V ± %		0.5 +/-0.1	
Excitation Voltage – VDC		2 to 8	
Bridge Resistance – Ohm		350	
Electrical Connection	m	3	
	ft	9.8	
MECHANICAL			
Safe Overload – %RO		150	
IP Rating		IP50	
Weight	kg	0.3	
	lb	0.7	
Material		Aluminum	Stainless Steel

STANDARD CONFIGURATION



Model AT104-20/0.1 (Shown)

WIRING

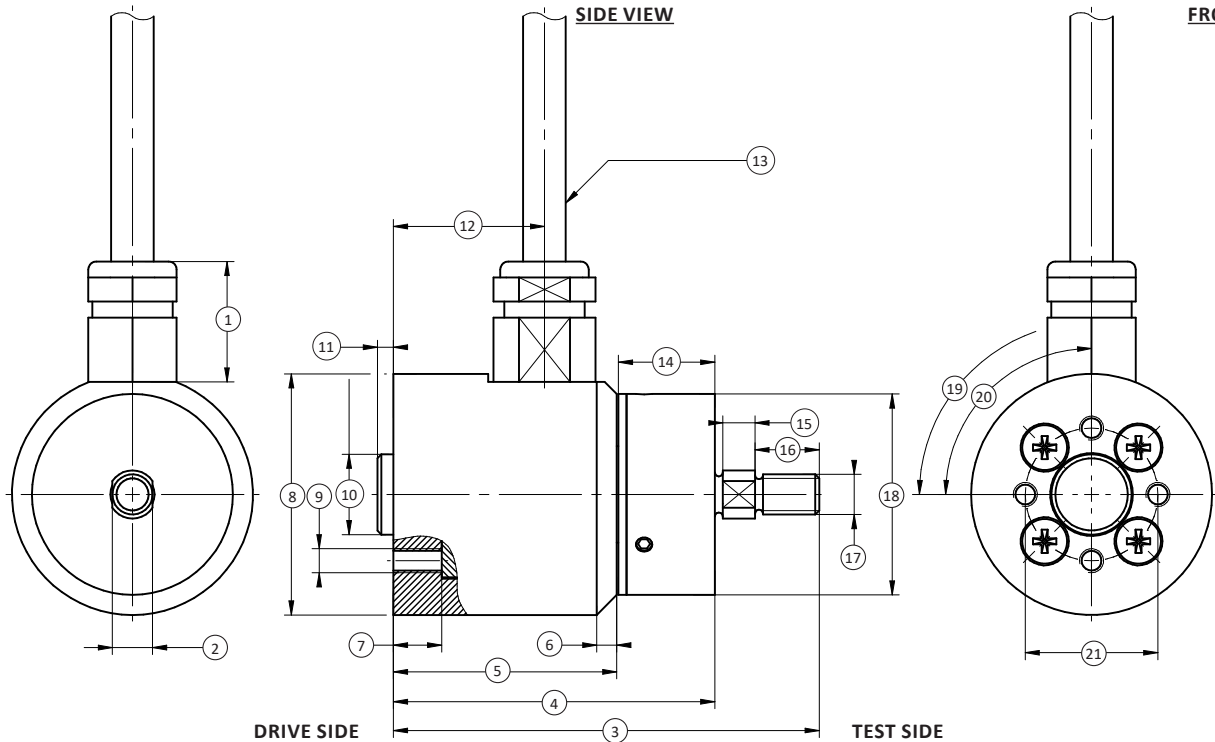
ELECTRICAL CONNECTION	
Excitation (-) torque	Blue
Excitation (+) torque	Red
Signal (+) torque	Pink
Signal (-) torque	Gray
Control signal torque (option)	Violet
Excitation (-) force	Green
Excitation (+) force	Brown
Signal (+) force	Yellow
Signal (-) force	White
Control signal force (option)	Black
Shield	Shield

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BACK VIEW

SIDE VIEW

FRONT VIEW



DIMENSIONS

See Drawing	Metric (N/Nm)	U.S. (lbf/lbf-in)
	20/0.1, 50/0.5	4.5/0.89, 11.2/4.4
	mm	in
(1)	15.0	0.59
(2)	SW 5.0	SW 0.20
(3)	53.0	2.08
(4)	40.0	1.57
(5)	27.8	1.09
(6)	2.5 x 45°	0.1 x 45°
(7)	6.0	0.24
(8)	Ø30.0	Ø1.18
(9)	4 x M3	4 x M3
(10)	Ø10.0 g6	Ø0.4 g6
(11)	2.0	0.08
(12)	19.0	0.75
(13)	Cable Ø5.8, 3M Length	Cable Ø0.23, 9.84ft Length
(14)	12.0	0.47
(15)	4.0	0.16
(16)	8.0	0.31
(17)	M5	M5
(18)	Ø25.0	Ø0.98
(19)	4 x 90° (=360°)	4 x 90° (=360°)
(20)	90°	90°
(21)	TK Ø16.5	TK Ø0.65