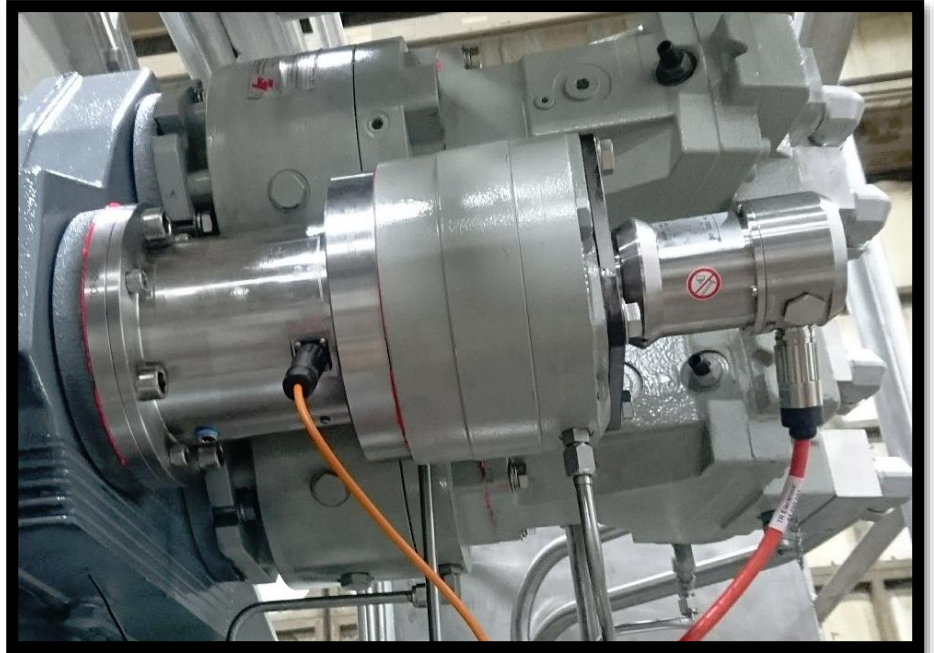


SAE MODULAR MOUNTING TORQUE CELL



- Traction drives
- Conveyor systems
- Drilling system
- Winch drives
- Mixer drives

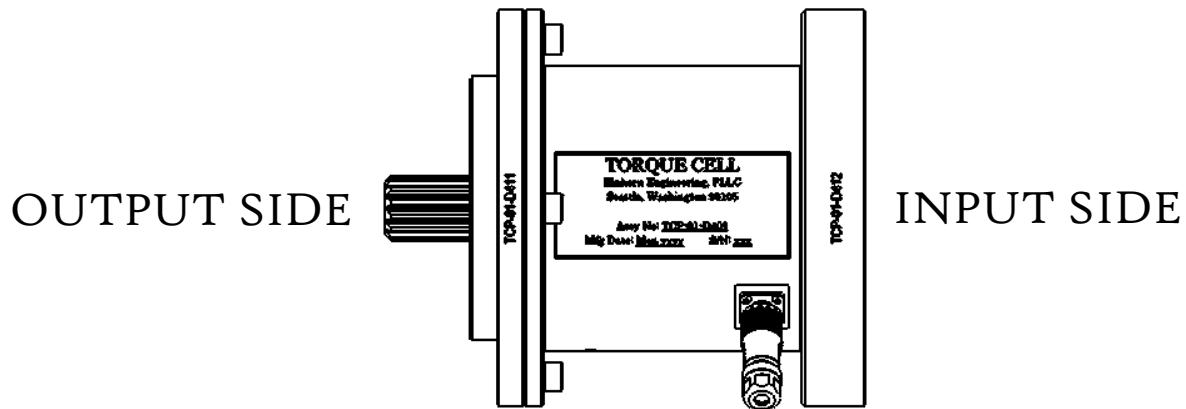


Application of Torque Cell integration in drive train to monitor brake holding torque

- Provides real time, continuous reading of torsional load on shaft
- Mounting flange and shafts conform to SAE and ISO mounting standards.
- Two dual pattern strain gauges to isolate torsional stresses
- Sealed to prevent water ingress (IP 69K).
- Constructed of AISI 316 stainless steel for corrosion resistance (other materials available on request).

Torque Cell

Product Specifications for
PN: TCP-01-D401



MECHANICAL SPECIFICATIONS

MAX INTERMITTENT TORQUE	500 ft-lbf
MAX CONTINUOUS TORQUE (COMPLETELY REVERSING)	275 ft-lbf
INPUT SIDE	SAE-C FOUR BOLT MOUNTING PATTERN (FEMALE)
INPUT SHAFT	INTERNAL SPLINE 14T 12/24
OUTPUT SIDE	SAE-C FOUR BOLT MOUNTING PATTERN (MALE)
OUTPUT SHAFT	EXTERNAL SPLINE 14T 12/24
WEIGHT	35 lb
MAX RATED SPEED	2,000 RPM
HOUSING MATERIAL	AISI 316 STAINLESS STEEL
ASSEMBLY IP RATING (CONNECTOR MATED)	IP69K

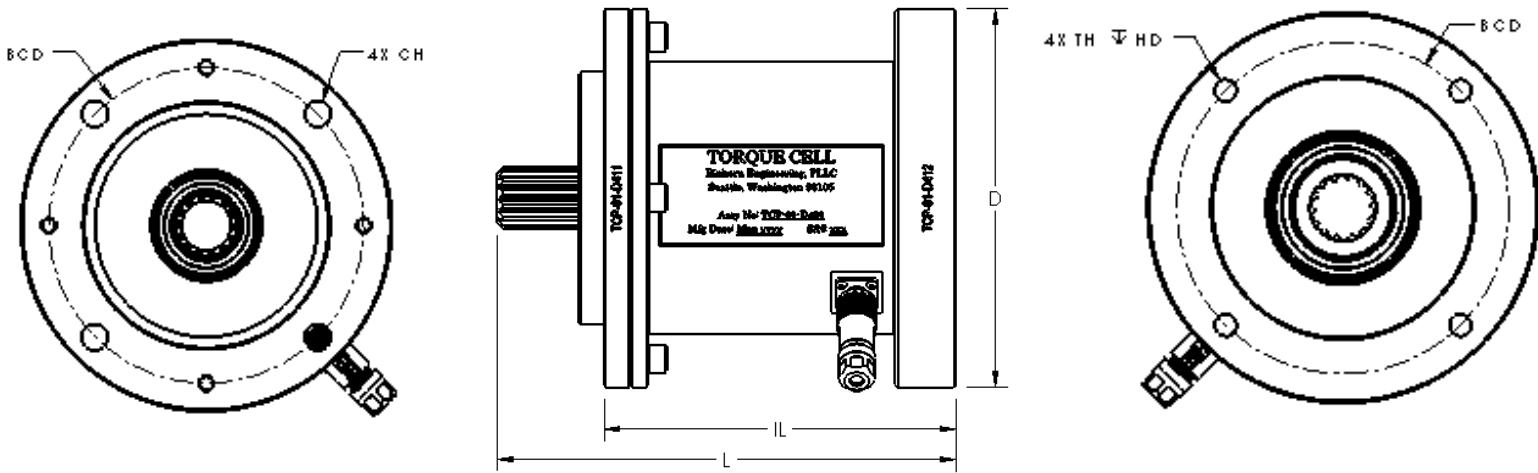
Torque Cell

Product Specifications for
PN: TCP-01-D401

ELECTRICAL SPECIFICATIONS

EXCITATION VOLTAGE	0-5V
A (BLUE WIRE)	+ POWER
B (BLACK WIRE)	- POWER
C (YELLOW WIRE)	+ SIGNAL
D (RED WIRE)	- SIGNAL
THEORETICAL BRIDGE OUTPUT AT 100 ft-lbf	.2 mV/V
CORD GRIP CABLE OD RANGE	1.5-6.5 mm
BRIDGE	FULL WHEATSTONE BRIDGE
STRAIN GAUGES	350 Ω \pm .4%
DYNAMIC CONTACT RESISTANCE	<10 m Ω /revolution

DIMENSIONS



DESCRIPTION	VALUE
OVERALL LENGTH (L)	9.1 in
INSTALLED LENGTH (IL)	7.0 in
DIAMETER (D)	7.5 in
CLEARANCE HOLE (CH)	.53 in
BCD	6.375 in
THREADED HOLE (TH)	1/2-13 UNC
THREAD HOLE DEPTH (HD)	.75 in