FLUSH-MOUNT 2.5 MM PIEZOELECTRIC CAVITY PRESSURE SENSOR

6159

The flush-mount 2.5 mm piezoelectric cavity pressure sensor 6159 from RJG, Inc. is a single- or multi-channel sensor that can withstand forces of up to 29,000 psi (2,000 bar) and a maximum temperature of 392 °F (200 °C).

TECHNICAL SPECIFICATIONS

SENSOR

Sensing Element		Piezoelectric
Linearity		< 1% full scale
Nominal Sensitivity	0.13 pC/psi	1.9 pC/bar
Insulation Resistance @ 68 °F (20 °C)	> 10^{12} Ω	> 10^{12} Ω
Insulation Resistance @ 392 °F (200 °C)	> 10^{11} Ω	> 10^{11} Ω

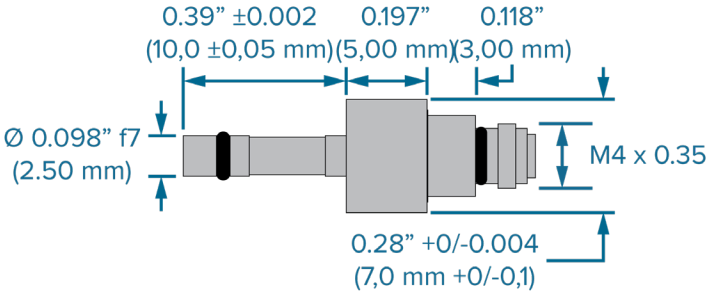
TEMPERATURE

MAX Temperature	392 °F	200 °C

PRESSURE

Force Range	29,008 psi	2,000 bar

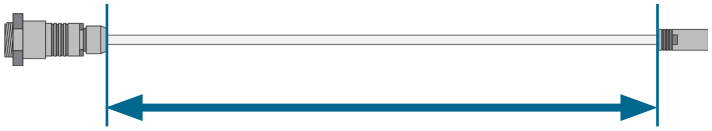
PRODUCT DIMENSIONS



SENSOR CABLE ORDERING LENGTH

Length must be longer than needed to facilitate safe installation and removal of connector from tool to prevent tension on the lead wire; generally, 2–3” (50–75 mm) of slack is sufficient. Use good sense to determine the appropriate cable length required for each application.

SINGLE-CHANNEL	MULTI-CHANNEL	LENGTH S.I.	LENGTH ENGLISH
-	C-PZ/1645-0.1	0,1 m	3.9”
-	C-PZ/1645-0.15	0,15 m	5.9”
1645-0.2	C-PZ/1645-0.2	0,2 m	7.90”
-	C-PZ/1645-0.25	0,25 m	9.8”
-	C-PZ/1645-0.3	0,3 m	11.8”
-	C-PZ/1645-0.35	0,35 m	13.8”
1645-0.4	C-PZ/1645-0.4	0,4 m	15.75”
1645-0.6	C-PZ/1645-0.6	0,6 m	23.60”
1645-0.8	C-PZ/1645-0.8	0,8 m	31.50”
1645-1.2	C-PZ/1645-1.2	1,2 m	47.24”
1645-1.6	C-PZ/1645-1.6	1,6 m	62.99”
1645-2.0	C-PZ/1645-2.0	2,0 m	78.74”



1645 CABLE ORDERING LENGTH

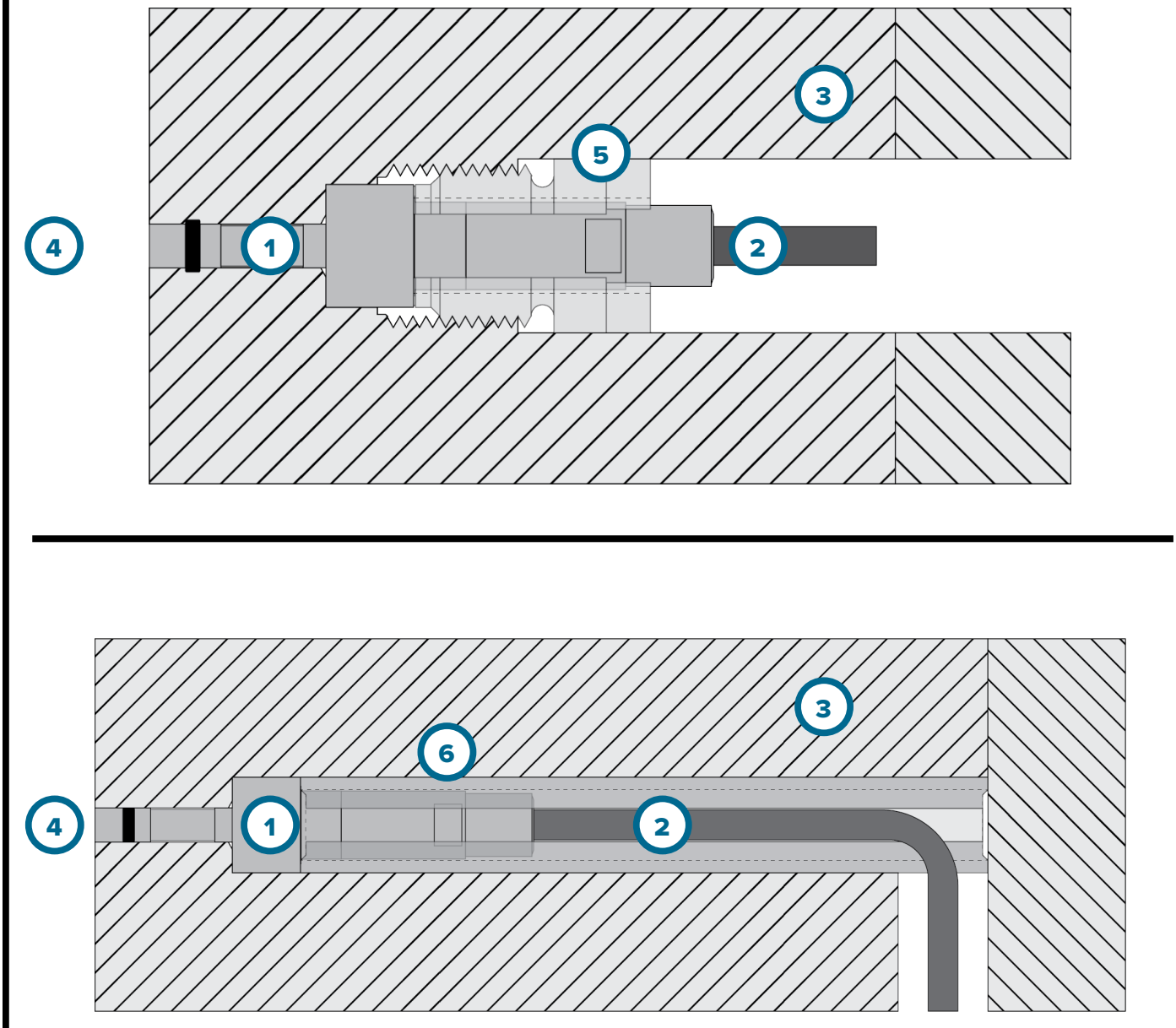
C-PZ/1645 CABLE ORDERING LENGTH

INSTALLATION

Refer to product manual and installation guide for all dimensions—available for download online at www.rjginc.com.

1 Sensor[1]	4 Cavity
2 Sensor Cable[2]	5 Retaining Nut[3]
3 Mold Steel	6 Retaining Sleeve[3]

[1] 6159

[2] 1645 or C-PZ/1645

[3] Manufactured by customer (specifications provided by RJG—refer to installation guide; ***nut and sleeve not sold by RJG***)