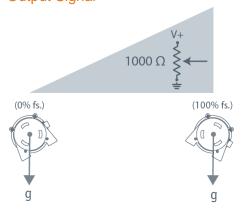


The model IT9101 is a rugged and simple device which provides a voltage divider feedback signal for incline position up to 240 degrees. The heart of the IT9101 is a magnetically-damped pendulum coupled to a conductive plastic precision potentiometer.

A highly linear relationship between inclination and the output signal is maintained over the full range of the IT9101.

Output Signal



IT9101

Inclinometer • Voltage Divider

Measuring Range Options from 0-105° to 0-240°
Aluminum or Stainless Steel Enclosure Options
Perfect for Water Management/ Tainter Gate Position
IP68 • NEMA 6 Protection

General

Available Full Stroke Ranges 0-105 to 0-240 degrees

Enclosure Material Options powder-painted aluminum or stainless steel

Sensor plastic-hybrid precision potentiometer

Electrical ConnectorMS3102E-14S-6PMating Plug (included)MS3106E-14S-6SWeight, Aluminum5 lbs. (10 lbs.) max.

(Stainless Steel) Enclosure

Electrical

Output Signal voltage divider (potentiometer)

 Input Resistance
 1000 Ω (±10%)

 Recommended Maximum Input
 30 V (AC/DC)

Voltage

Full Scale Output Signal Change 92% ± 6% of input voltage

(Vdc)

32 /0 ± 0 /0 01 Impat voltage

Environmental

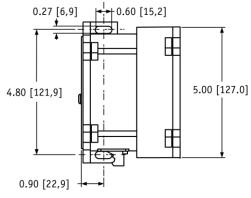
Enclosure NEMA 4/4X/6, IP 67/68

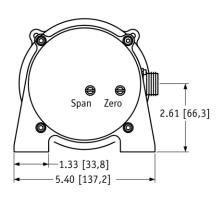
Operating Temperature -30° to 200°F (-34° to 90°C)

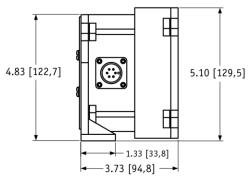
Vibration up to 10 g to 2000 Hz maximum

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Outline Drawing







DIMENSIONS ARE IN INCHES [MM] tolerances are ±0.02 in. [±0,5 mm] unless otherwise noted

Ordering Information

Model Number:



Sample Model Number:

IT9101 - 060 - 120 - 1110

cw clockwise rotation: CCW counter-clockwise rotation:

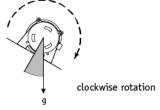
nclosure:

 $\frac{60^{\circ}}{120^{\circ}}$ } total rotation = 180° aluminum

electrical connection:
magnetic dampening: electrical connection: 6-pin plastic conncector

Full Clockwise Rotation:

CW order code:	000	015	030	045	060	075	090	105	120
	O٥	150	300	450	600	750	900	1050	1200

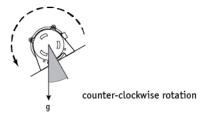


Important--

the sum of the Clockwise and Counter-Clockwise Rotations must be in the range of 105° to 240°

Full Counter-Clockwise Rotation:

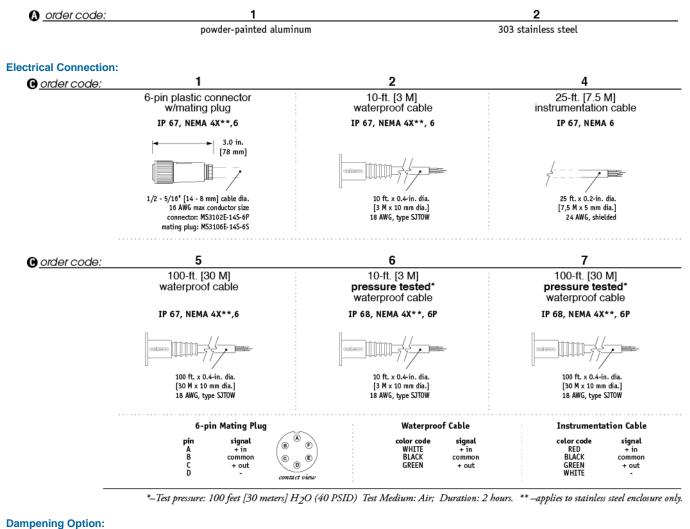
CCW order code:	000	015	030	045	060	075	090	105	120
	O°	150	30°	45°	60°	750	900	105°	120°



Important--

the sum of the Clockwise and Counter-Clockwise Rotations must be in the range of 105° to 240°

Enclosure Material



order code:

0 with magnetic dampening

without magnetic dampening