



Contactless TPS Dual Channel
Parallel Output
Part # H-TPS-MS-V-DBW-D
Technical Diagram
Drawing Revision 1 - 19/11/24



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Channel 1 CLOCKWISE ROTATION TO OPEN


Green  +5V

Yellow  Signal

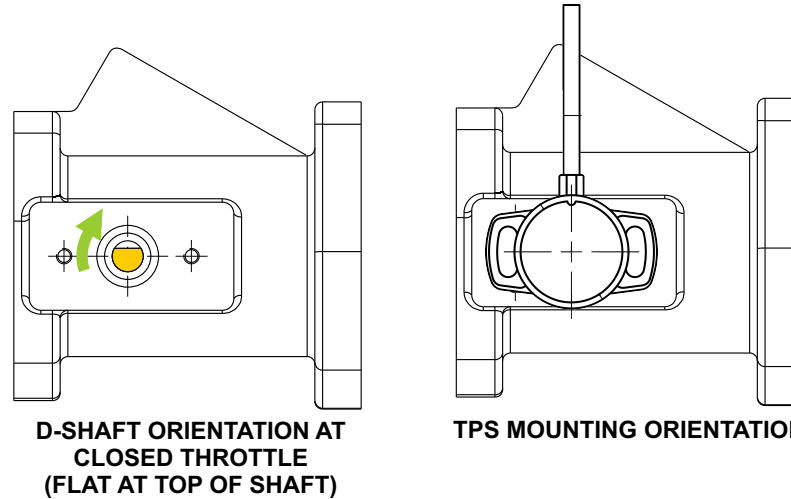
Blue  Ground

Red  +5V

White  Signal

Black  Ground

Channel 2 CLOCKWISE ROTATION TO OPEN



SENSOR OUTPUT VALUES

Channel	Angle	Volts	% Of signal
Channel 1	MIN	0	5%
	MAX	120	95%
Channel 2	Min	0	5%
	MAX	120	95%

SENSOR SPECIFICATIONS

Closed Throttle - 1.2V Nominal
Open Throttle - 4.2V Nominal
IP Rating - IP68 (minimum)
Operating Voltage - 5V +/-0.5V
Typical Life Cycle - >50 million movements
Electrical Cable - Raychem Spec 55, 24 AWG
Electrical Cable Sleeving - Raychem DR25

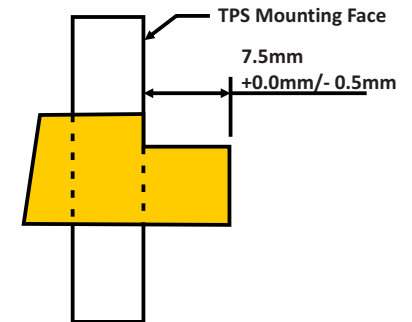
D-SHAFT SPECIFICATIONS

It's extremely important for reliable operation of this TPS that the D drive is a firm fit into the D receptacle in the Throttle Position Sensor.

D-Shaft Detail End View:



D-Shaft Detail Side View:



D-SHAFT WEDGE

If the D on your shaft is less than 6.0mm, you must use the supplied 0.2mm shim to pack the flat of the D for positive shaft to sensor engagement.

If required, put a kink in the shim to increase engagement

