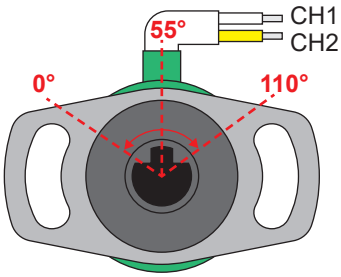
Throttle Position Sensor - Contactless Dual Channel 8mm D-shaft (inc. matching set of Deutsch DTM-6 connectors)

This compact, contactless Hall Effect throttle position sensor provides dual channel complementary voltage signals as the throttle rotates, making it suitable for both mechanical cable type throttles and DBW throttle systems that require an external TPS separate from the motor.

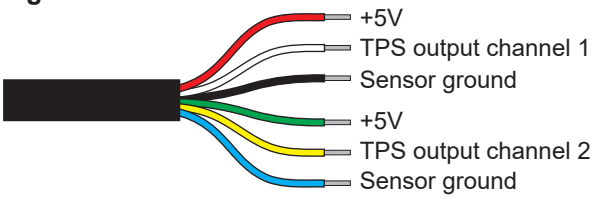


Sensor Output Values	
Channel 1	
Angle	Volts
0°	0.25
55°	2.50
110°	4.75
Channel 2	
Angle	Volts
0°	4.75
55°	2.50
110°	0.25

NOTE: The use of both TPS channels is only required for DBW applications for sensor redundancy. Cable-type throttles will only require one channel to be used.

(Turn the page over for sensor mounting guide.)

Wiring Information



Recommended termination

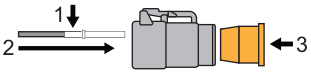


DTM04-6P wire side
(Female connector)

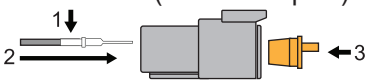
Pin	Function
1	Sensor ground
2	TPS Channel 1
3	5V
4	5V
5	TPS Channel 2
6	Sensor ground

Deutsch DTM connector crimping instructions

Male connector (uses female pins)



Female connector (uses male pins)



1. Crimp pin to wire using HT-070307 crimping tool
2. Insert into wire side of connector
3. Insert wedge to lock pins into connector

HT-010409

Revision #1

Haltech

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No responsibility whatsoever is accepted by Haltech for the fitment of Haltech Products. The onus is clearly on the installer to ensure that both their knowledge and the parts selected are correct for that particular application. Any damage to parts or consequential damage or costs resulting from the incorrect installation of Haltech products are totally the responsibility of the installer.

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Unless specified otherwise, Haltech warrants its products to be free from defects in material or workmanship for a period of 12 months from the date of purchase. Proof of purchase in the form of a copy of the original purchase invoice, receipt or bill of sale which indicates that the product is within the warranty period, must be presented to obtain warranty service. If the Haltech product is found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of purchase. This shall constitute the sole liability of Haltech. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations, either expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Haltech, be liable for special or consequential damages.

Product Returns

Please include a copy of the original purchase invoice, receipt or bill of sale along with the unused, undamaged product and its original packaging. Any product returned with missing accessory items or packaging will incur extra charges to return the item to a re-saleable condition. All product returns must be sent via a freight method with adequate tracking, insurance and proof of delivery services. Haltech will not be held responsible for product returns lost during transit. The sale of any sensor or accessory that is supplied in sealed packaging is strictly non-refundable if the sealed packaging has been opened or tampered with. This will be clearly noted on the product packaging. If you do not accept these terms please return the sensor in its original unopened packaging within 30 days for a full refund.

Returning a sensor or accessory product within 30 days of purchase: Product may be returned for credit or full refund. (Any sealed packaging must not have been opened or tampered with.)

Returning a sensor or accessory product after 30 days of purchase: Product may be returned for credit only (no refunds given) and is subject to a 10% Restocking fee. (Any sealed packaging must not have been opened or tampered with.)

Version 6.0

This sensor is **strictly non-refundable** if this packaging has been opened or tampered with. This sensor has been individually electronically tested before packaging and is sold "as is" and without any further warranty. If you do not accept these terms please return this sensor in its original unopened packaging for a full refund.

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HT-010409

Throttle Position Sensor Contactless Dual Channel 8mm D-Shaft

(inc. DTM6 connector set)

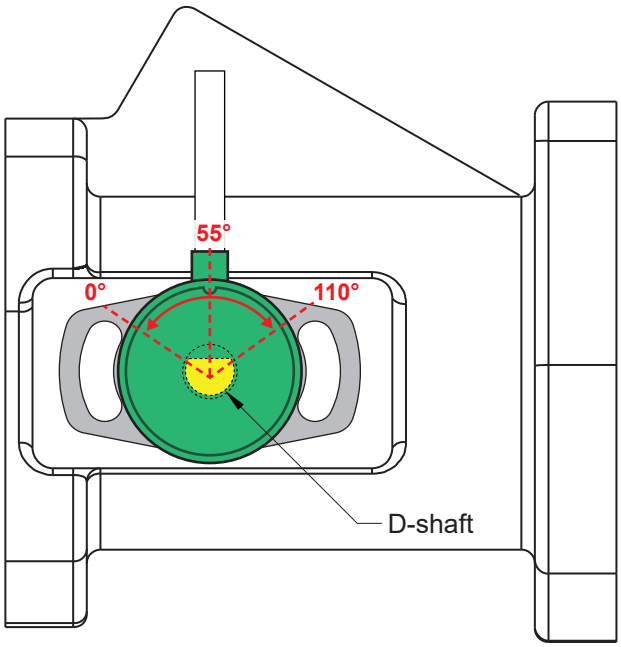
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TPS Mounting Guide

This sensor has no mechanical stops and can rotate a full 360°. However, the TPS must be fitted so the flat side of the throttle D-shaft moves within the 110° readable range of the sensor, with the midpoint of the electrical angle being the sensor cable exit as shown below. The voltage output will clip on both channels outside this operating range.

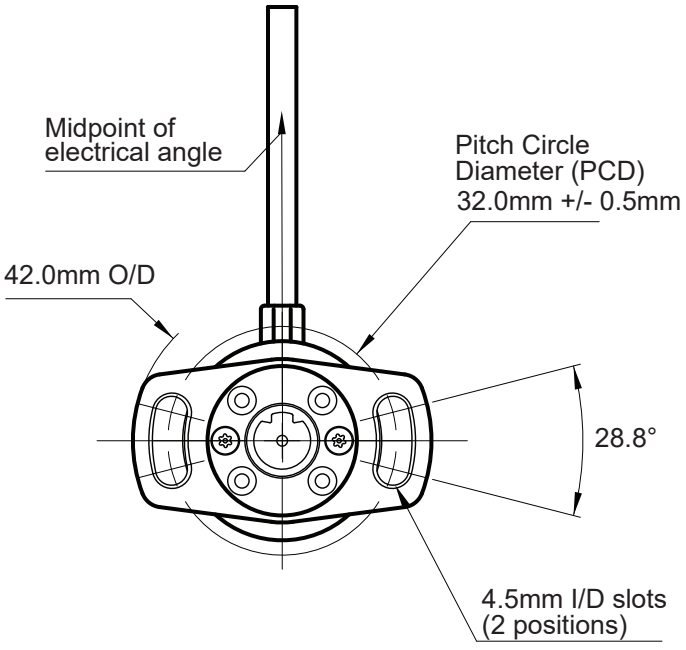
The sensor can be adjusted, or clocked, +/- 28.8° using the mounting slots to match the throttle D-shaft operating range. If required, further adjustment can be made by undoing the two Torx screws and repositioning the sensor mount from the underside.



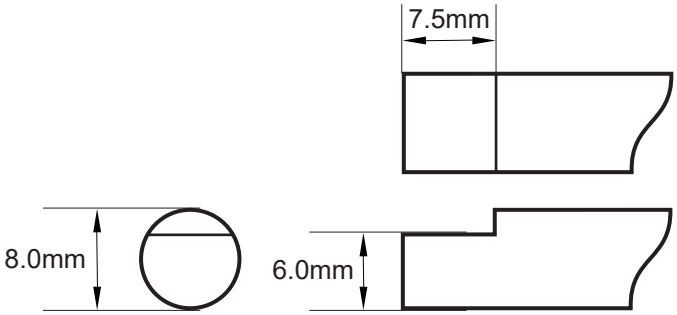


TPS Mounting Dimensions

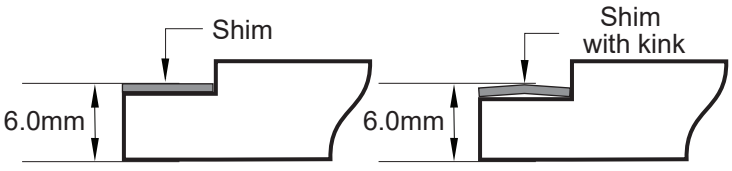
Below shows the sensor dimensions (including bolt hole diameter and PCD) for mounting purposes.



Mating 8mm D-shaft detail



It is extremely important for reliable operation of this TPS that the throttle D-shaft is a firm fit into the D receptacle in the sensor. If the D on the throttle shaft is less than 6 mm, a shim must be used to pack the flat of the D for positive shaft-to-sensor engagement. If required, put a kink in the shim to increase engagement.



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