



The H-TPS-MS-V-XPk40 has two outputs for redundancy, which is required for Drive By Wire applications.

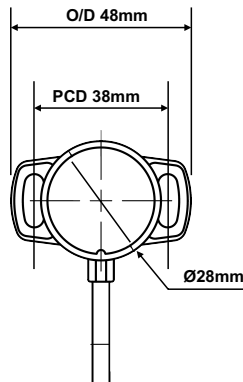
A magnet encapsulated in the M10 Screw Magnet changes the two outputs of the sensor as it rotates with a maximum rotation angle of 40°.



Sensor

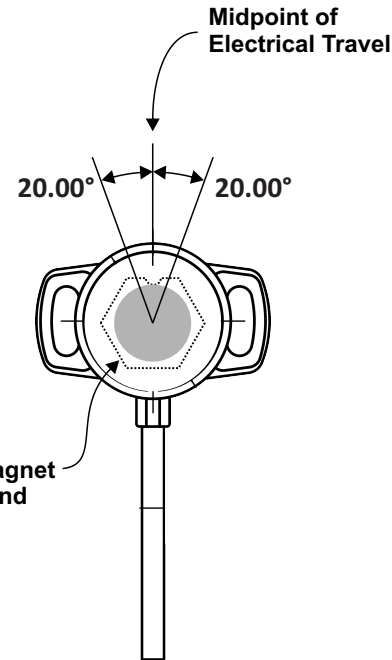


M10 Screw Magnet

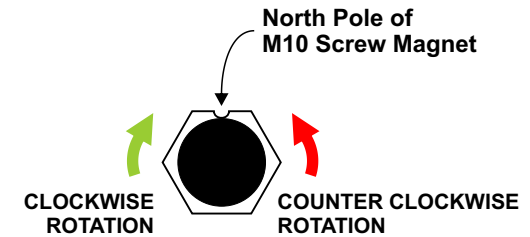


SENSOR SPECIFICATIONS

IP Rating - IP68 (minimum)
Operating Voltage - 5V +/-0.5V
Typical Life Cycle - >100 million movements
Electrical Cable - Raychem Spec 55, 24 AWG
Electrical Cable Sleeving - Raychem DR25



M10 Screw Magnet mounted behind sensor



Note: The M10 Screw Magnet must be screwed into the center of a rotating accelerator pedal shaft.

Distance from M10 Screw Magnet to XPK Face: 0 - 4.5mm

SENSOR OUTPUT VALUES

| Channel 1 | Angle | Volts | % Of signal |
|-----------|-------|-------|-------------|
| MIN | 0 | 0.25 | 5% |
| MAX | 40 | 4.75 | 95% |

| Channel 2 | Angle | Volts | % Of signal |
|-----------|-------|-------|-------------|
| Min | 0 | 4.75 | 95% |
| MAX | 40 | 0.25 | 5% |

| Channel 1 CLOCKWISE ROTATION TO OPEN | | |
|---|--|--------|
| Green | | +5V |
| Yellow | | Signal |
| Blue | | Ground |

| | | |
|-------|--|--------|
| Red | | +5V |
| White | | Signal |
| Black | | Ground |

Channel 2 **COUNTER CLOCKWISE ROTATION TO OPEN**