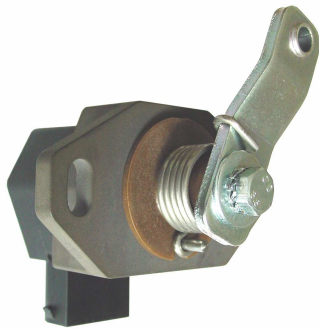


## 6. Electronic Throttle Position Sensor

	<ul style="list-style-type: none"> <li>➤ Digital output signal: PWM 500Hz</li> <li>➤ Fitted with Hall Effect Sensor</li> <li>➤ One return spring: 20N Idle – 25N Full +/-2N</li> <li>➤ Travel angle : 42°</li> <li>➤ Protection classification : IP69K</li> <li>➤ Easy to be fitted on an existing pedal cable or linkage</li> <li>➤ Very convenient whenever engine is operated from more than one station</li> <li>➤ One additional external return spring required on throttle mechanism in order to be FMVSS 124 compatible</li> <li>➤ <b>CE</b> certified</li> </ul>
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### Mechanical specification:

Travel angle – Idle to full throttle -	42°
Return spring	1
Storage temperature	- 40°C to + 95°C
Operating temperature	- 40°C to + 85°C
Protection classification (sealing)	IP69K
Connector	AMP – 6 pins - waterproof

### Electrical specification:

#### PWM - 500Hz Sensor – 1 channel

Current consumption	< 12 mA / channel
Power source (Vs)	8 to 36 Volt DC
Output current	Max. 10mA
Output channel # 1:	Idle: <b>15%</b> +/--1% – Full Throttle: <b>85%</b> +/--1%
Output channel # 2	not activated
Frequency	<b>500Hz</b> +/--20% - set for <b>PERKINS</b> Engine Mgt. System
Relative Linearity	+/- 1%
Resolution	0.25 °

### Throttle Position Sensor part number:

MCS Part number	Travel angle	MCS drawing number*
974 245 51	42°	503 477

\* MCS reserves the right to update drawings at any time without notice.

Technical spec sheets and part numbers of Digital Throttle Position Sensor with options such as twin PWM, wire harness or connectors are available upon request.