TD4PX series electronic roll-over switch



- Roll-over detection and fuel cut-off
- Wide trigger angle with 2° Hysteresis
- 3 sec delay on trigger and reset angle standard
- Non resettable one shot optional
- Optional reset by external module or auto reset
 after 90s
- Up to 1A output to drive up to 2 x mini-ISO relays

CE

• Optional LED for trip status indication

RoHS Compliant

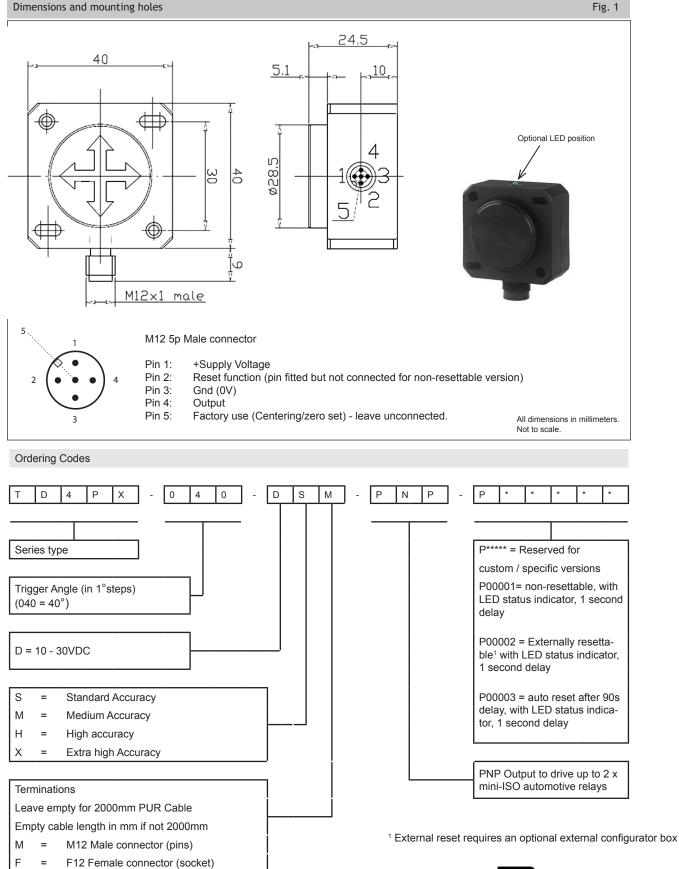
Specifications		
Output		PNP (see Fig. 3 for details)
Output load	DC	0.5A (max.)
Short circuit protection		Yes
Supply voltage	DC	8 - 30V
Current consumption		≤ 25mA
Polarity protection		Yes
Boot up time		<10ms
Llouging		Direction moulded (DDTD)
Housing	L) A / 1	Plastic injection moulded (PBTP)
Dimensions (approx.)	LXWXH	40 x 40 x 25mm
Mounting		M3 screws
Connection		M12 5 pin male connector (others to special order)
Weight		approx. 50g
Ambient temperature		-25°C to +85°C (storage and operating)
Humidity		0 - 95% non-condensing
Sealing	IEC60529	IP67
Shock resistance	max.	10g
		40° standard attack and an be an aified, and and aims and
Measuring range	detection angle	
Centering function		pre-centered at 0°, range ±5°
Frequency response	(-3dB)	0 - 0.1Hz
Accuracy		±5°
Offset Error		0° (after factory zeroing)
Resolution		0.09°
Temperature coefficient		±0.04°/K



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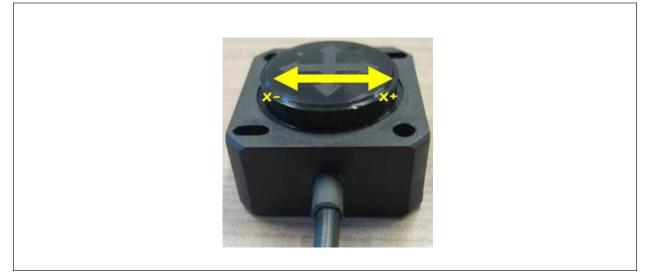
Dimensions and mounting holes



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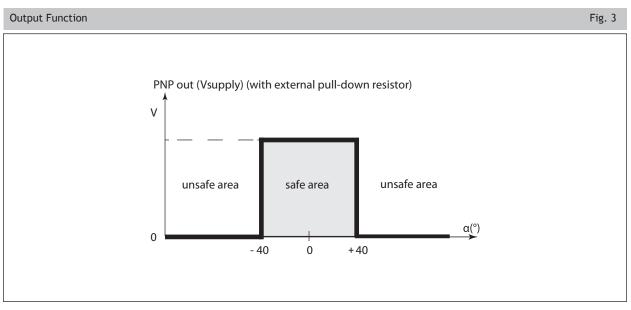


Mounting Orientation



The default 0 ° position is when the switch is mounted horizontally and no acceleration (or tilt) is applied.

When mounting, please ensure sufficient space is left to allow for the cable (not supplied) and connector. Undue stress on the cable and connector should be avoided.



The PNP output is designed to drive up to 2 standard 12VDC mini-ISO automotive relays in parallel, such as the Durakool DG85 series. If driving relays a pull-down resistor is not required. When the switch is in the safe area (tilt angle is less than \pm 40°), the output is high and the relay is driven on. If the switch is tilted such that it detects an angle greater than 40° then the output goes low and the relay is turned off.

If the switch is unpowered, the output is off.

Once the switch has detected an over angle, there is a 3 second (optional 1 s) delay and the output goes low and stays low, even if the power to the switch is removed and re-applied. If the reset option is specified, the switch can be reset using a separate "con-figurator" module. The optional LED illuminates if the switch has detected an over angle and the output is low. The LED will turn off if power to the switch is removed, but will turn on again when power is re-applied (until reset for resettable versions).



Specifications are subject to change without notice. E&OE.