SPEED SENSOR TD

✔ **Detection of the rotation direction.**

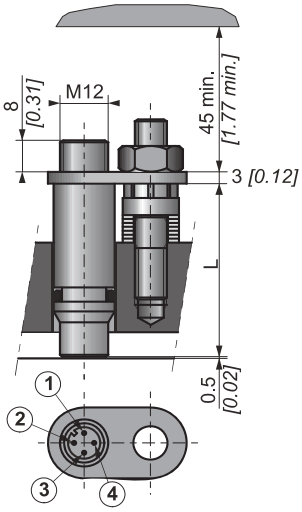
Commercial name	TD SENSOR 12-44	TD SENSOR 12-53	TD SENSOR 12-62
Part number	A38514N	A38515P	A38516Q
Lenght **L**(*)	44 *[1.73]*	53 *[2.09]*	62 *[2.44]*
Function	Detect movements : rotation speed and rotation direction		
Compatibility	Electronic transmission management		

(*) : According to the size of the motor, consult your Poclain Hydraulics sales engineer

Features	
Supply voltage	8 - 32 V
Output type	- 2 push-pull shifted square frequency signals (phase shift from 25° to 155°) - Maximum load current: 20 mA - Voltage at low state: < 1.5 V - Voltage at high state: > (power supply voltage - 3.5 V)
Maximum range	1.15 mm *[0.045"]*
Current consumption	20 mA max.
Frequency range	0 to 15 kHz
Instantaneous frequency deviation	10% with sensor mounted on Poclain Hydraulics motors
Operating temperature	- 40°C to + 125°C *[- 40°F to 257°F]*
Material	Stainless steel
Protection rating	IP68 (sensitive side) / IP67 (connector side)
Electrical protection	Reverse polarity

Signals are not protected against short circuit to ground or supply.

Layout



Installation

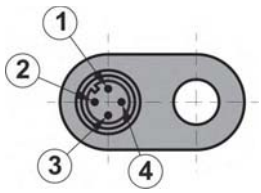
Disconnecting the accessories and speed set up

In the case of motors predisposed to speed, the existing shutter needs to be removed and eliminated before installing the sensor and its attachment device.

To install the sensor, see the "Installation guide" brochure No. 801478197L.

Connection of the speed sensor

Remove the plastic plug on the connector.



Function	Pin number
Power supply	1
Square frequency signal n°2	2
Ground	3
Square frequency signal n°1	4

For the connection of connectors, please refer to the connection table and the general cabling plan contained in the installation brochure for your transmission.

Electrical connections	90°	180°
Commercial name	ELEC-CABLE-M12-90°-5000	ELEC-CABLE-M12-180°-5000
Part number	A04999J	A07468S
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In case of using an M12 90° cable (A04999J), pay attention to the alignment of the elbow with the sensor´s bracket to avoid twisting the sensor´s connector pins.