



## Speed Sensor

The speed sensor generates a pulse, which is triggered by the approaching tooth of the rotating target gear wheel. The target must be placed at a distance 'X' from the sensor face.

Direction of rotation can also be detected.

# Speed Sensor

## TECHNICAL DATA

### Industry

Passenger Car

### Application

Transmission

### Functions

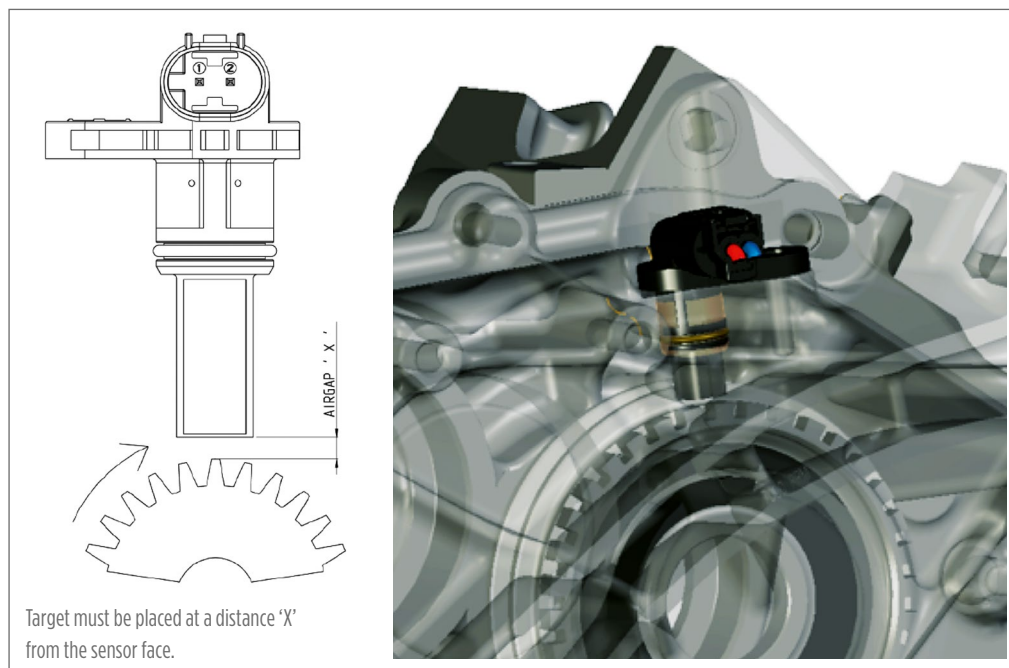
Measuring gear speed,  
travel and angle position

### Technology

Hall  
(with integrated magnet)

### Features

- Triggered by ferromagnetic gear wheel
- Current interface with direction detection
- Sealed connector interface
- Diagnostics ability due to two-wire interface
- IP6K9
- Temperature range -40°C up to 150°C



## OPERATING CHARACTERISTICS

Requirement	Parameter	Unit	Min	Max
Supply voltage	Vsup	V	8	18
Supply current				
Low state	I sup(low)	mA	5	8.5
High state	I sup(high)	mA	12	16.5
Ambient temperature	Ta	°C	-40	150

Parameter	Symbol	Unit	Min	Nom	Max
Pulse width	Plength (fwd)	µs	38	45	52
	Plength (Rev)	µs	76	90	104
	Plength (speed only)	µs	153	180	207
Air gap	X	mm	0.5 mm	1.0 mm	1.5mm



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