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Sender Unit

2159-0x

The Sender Unit is designed for transforming the rotatory movement of the speedometer drive shaft (characteristic coefficient of the vehicle) into electrical pulses. The rotations are captured by a Hall IC. The pulses supplied by the Hall IC are used by tachographs and on-board computers for capturing the distance covered and the road speed. This technology has the major advantage that only an electrical lead is to be placed in the vehicle, instead of a mechanical drive shaft.

Features

- Double pulse (inverted)
- Mechanical input
- Static measuring
- Hall IC technology
- Suitable for road speed and engine speed measuring
- Independent of sense of rotation
- Can be sealed

Applications

- For tachographs/EC tachographs KTCO 1318, FTCO 1319 and MTCO 1390 NEC
- Generally for devices requiring an electrical pulse (double pulse, inverted) for road speed and/or distance measuring.



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Technical Information

Output	Double pulse (inverted)
Imp./revolution	8 (n and v)
Impulse ratio	30-70% 70-30%
Operating voltage	6,5 16 V
Power consumption (~U)	max. 15 mA
Operating temperature	-30°C +125°C
Storage temperature	-40°C +140°C
Connection	unearthed
Connection Output resistor (pull up)	unearthed open collector
	a
Output resistor (pull up)	open collector
Output resistor (pull up) Protective resistance	open collector 1,5 kΩ
Output resistor (pull up) Protective resistance Signal shape	open collector 1,5 kΩ rectangular

Interference protection	depending on
	additional circuit
Radiated susceptibility	DIN 40839 T4 (100V/m)
Outputs, short-circuit proof	30 V, 1 min.
Protection	IEC 529, IP 66
Resistance to vibrations	10 g
Connection of sender unit	
to sender unit cable	via bayonet joint
Connection of sender unit to a	via thread M22 x 1,5
speedometer drive shaft	or 7/8" 18 UNS 2B
Torquet (wrench size)	$50 \pm 10 \text{ Nm (WS 27)}$
Weight	approx. 120 g
Dimensions (Ø x L in mm)	approx. 39,5 x 65

Threads:



