

EMD-Speed Sensor

Specifications:

Output signal*			D1	D2
	Pulse mode	Push-pull output. Direction = CCW: high, CW: low Configurable up to 180 pulse/revolutions	Square Wave	Direction
	Quadrature mode	2 channels with 90° phaseshift each with 90 pulses/revolution Push-pull output	Square Wave Phase A	Square Wave Phase B
	CAN mode	Supports CAN 2.0B with SAE J1939 Message Protocol with Proprietary Messages Baudrate: 250 kbaud (fixed) Shaft velocity: ± 2500 rpm		
Speed range		0 - 2500 rpm		
Supply voltage		9 - 36 Vdc		
Maximum power		0.8 W		
Temperature range		-30 °C to 100 °C		
EMC-Immunity (EMI):		100 V/m ISO 13766		
Grade of enclosure**		IP 69 K		
Vibration		30 G (294 m/s ²)		
Shock		50 G (490 m/s ²)		

* Configurable with PLUS+1™ Service Tool - Please contact Sauer-Danfoss for further information.

T301 082

** According to IEC 529.

Ordering Information for EMD Speed sensor

Standard sensor

Part number	Output	Parameter	Default setting
11094003	Pulse mode	Pulse/rev (PPR)	180
11101202	Quadrature mode	2 channels 90° phaseshift	90*
11101205	CAN mode	Node address	0x51**
		Message transmission rate	50 ms
11114575	OEM configurable sensor	---	---

Special sensor

Part number	Output	Parameter	Default setting
11101182	Compatibility mode OMM	Pulse/rev (PPR)	22
11101186	Compatibility mode OMP/R	Pulse/rev (PPR)	35
11101188	Compatibility mode OMS	Pulse/rev (PPR)	55
11101189	Compatibility mode OMT	Pulse/rev (PPR)	84
11101191	Compatibility mode OMV	Pulse/rev (PPR)	102
11101204	Compatibility mode TMK	Pulse/rev (PPR)	70

*) Fixed setting. Can not be changed

**) Hexadecimal

Order Information

Orbital Motor prepared for EMD Speed Sensor is to be order seperatly. *See page 8-11*