

Installation Guide

LSHT-motors with EMD-speedsensor

11099628



Turn the sensor to the desired position and mount the sensor on the plug.

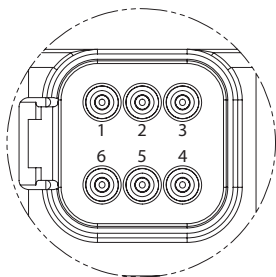
It is possible to mount the sensor in 36 positions.



To lock the sensor, push the clip into the sensor as shown.

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Deutsch DT connector – 6 pin



P301 314

Sensor Pinout

Pin	Controller function
1	Power supply 9-36 V dc
2	Power ground -
3	D 1 (configurable output)
4	CAN L
5	CAN H
6	D 2 (configurable output)

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Deutsch DT connector 6 pin mating connector assembly:
(Not offered by Danfoss)

			Color
1	Plug	DT06-6S-PO12	(black)
1	Wedglock	W6S-PO12	(green)
6	Solid Contacts	0462-209-16141	(nickel)
Options			
1	Boot	DT6S-BT-BK	(black)

For correct mounting please see
Deutsch homepage: www.deutsch.net

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 (ambient)		-30 °C to 60 °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)		

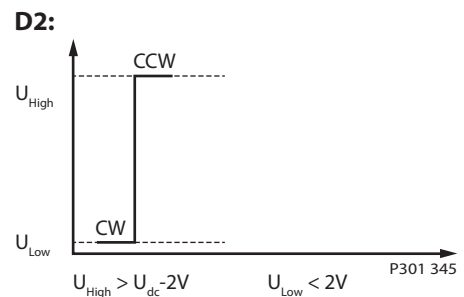
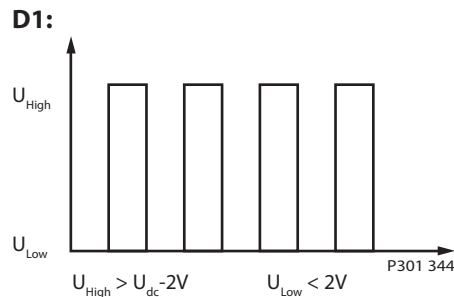
* Configurable with PLUS+1® Service Tool - Please contact Danfoss for further information.

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** According to IEC 529.

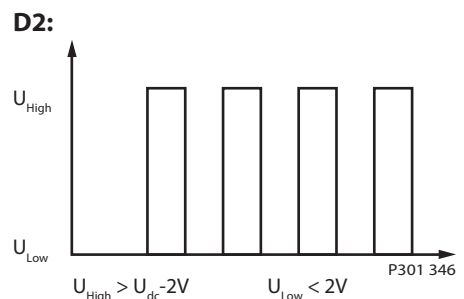
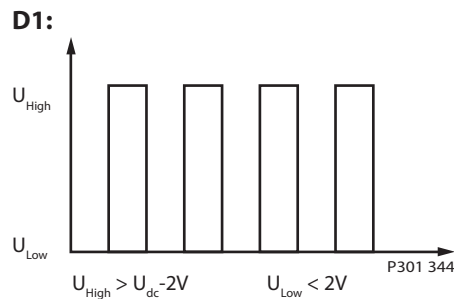
Pulse mode

The sensor generates a speed dependent pulse on D1 and a direction signal on D2.

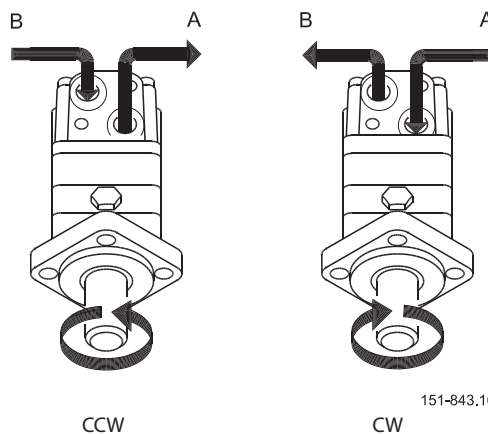


Quadrature mode

The sensor generates a speed dependent pulse on D1 and D2 with a 90 degree phaseshift.



Direction of shaft rotation



Warning

Please note that the EMD speed sensor may fail. Output signals may not represent correct rotation speed or direction. Any application of the EMD speed sensor should be subjected to appropriate hazard and risk assessment, according to relevant safety standards for the application. Reliability data MTTF for the EMD speed sensor are available on request from your Danfoss representative.