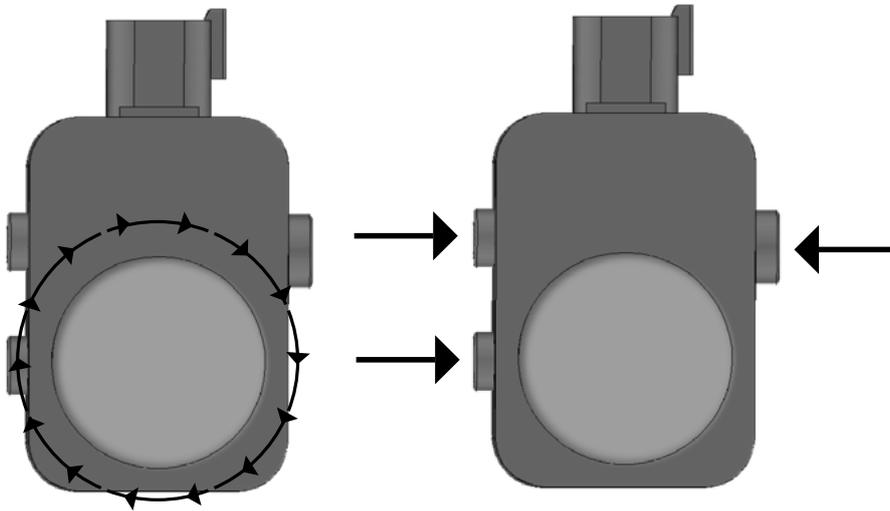




VMD Speedsensor



INSTALLATION GUIDE

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

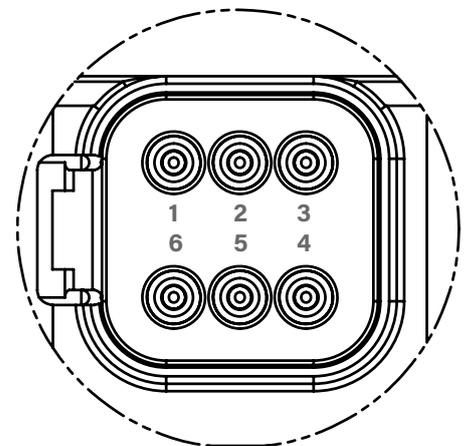
It is possible to mount the sensor in 36 positions.

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

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)

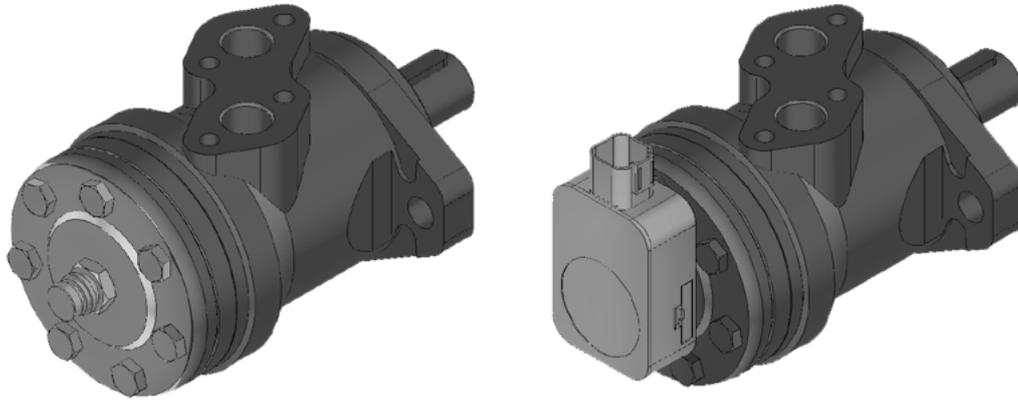
Deutsch DT connector - 6 pin



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)

VMD Speedsensor



SPECIFICATION Main Specification

Output signal			D1	D2
	Pulse mode	mode Push-pull output. Direction = CCW: high, CW: low Confi gurable 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 (fi xed)		
		Shaft velocity: ± 2500 rpm		
Speed range	0 - 2500 rpm			
Supply voltage	9 - 36 Vdc			
Maximum power	0.8 W			
Temperature range (amibient)	-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)			

* Confi gurable with PLUS+1® Service Tool - Please contact Danfoss for further information. T301 082

** According to IEC 529.

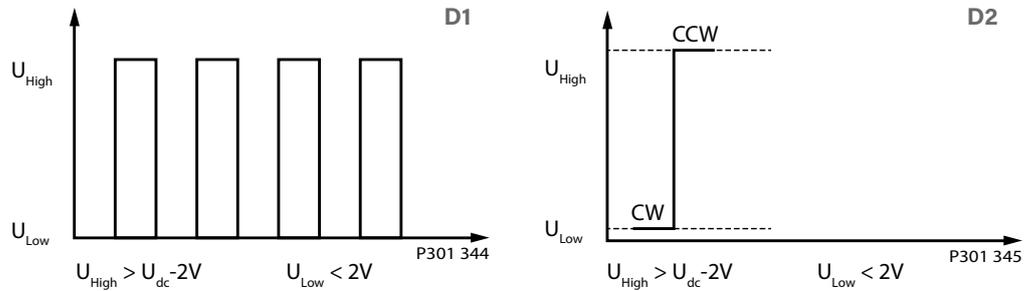


VMD Speedsensor

SPECIFICATION Main Specification

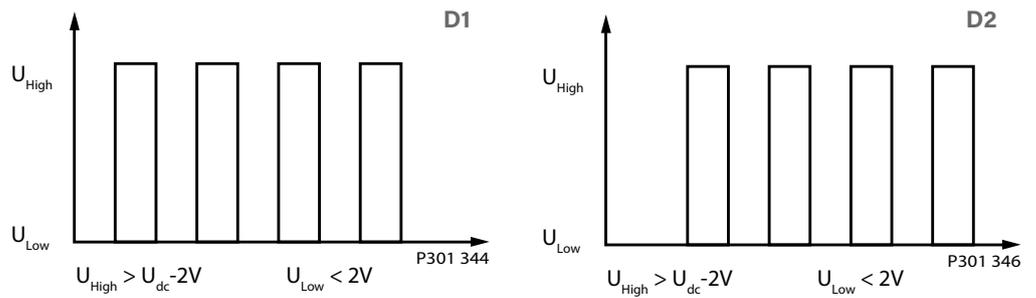
Pulse mode

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

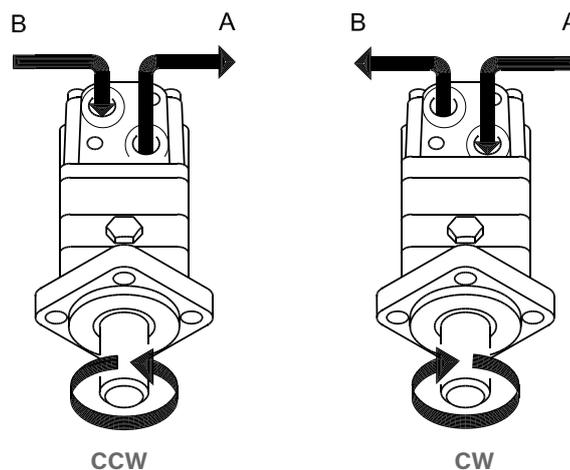


Quadrature mode

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



Direction of shaft rotation



*Please note that the **VMD** speed sensor may fail. Output signals may not represent correct rotation speed or direction.

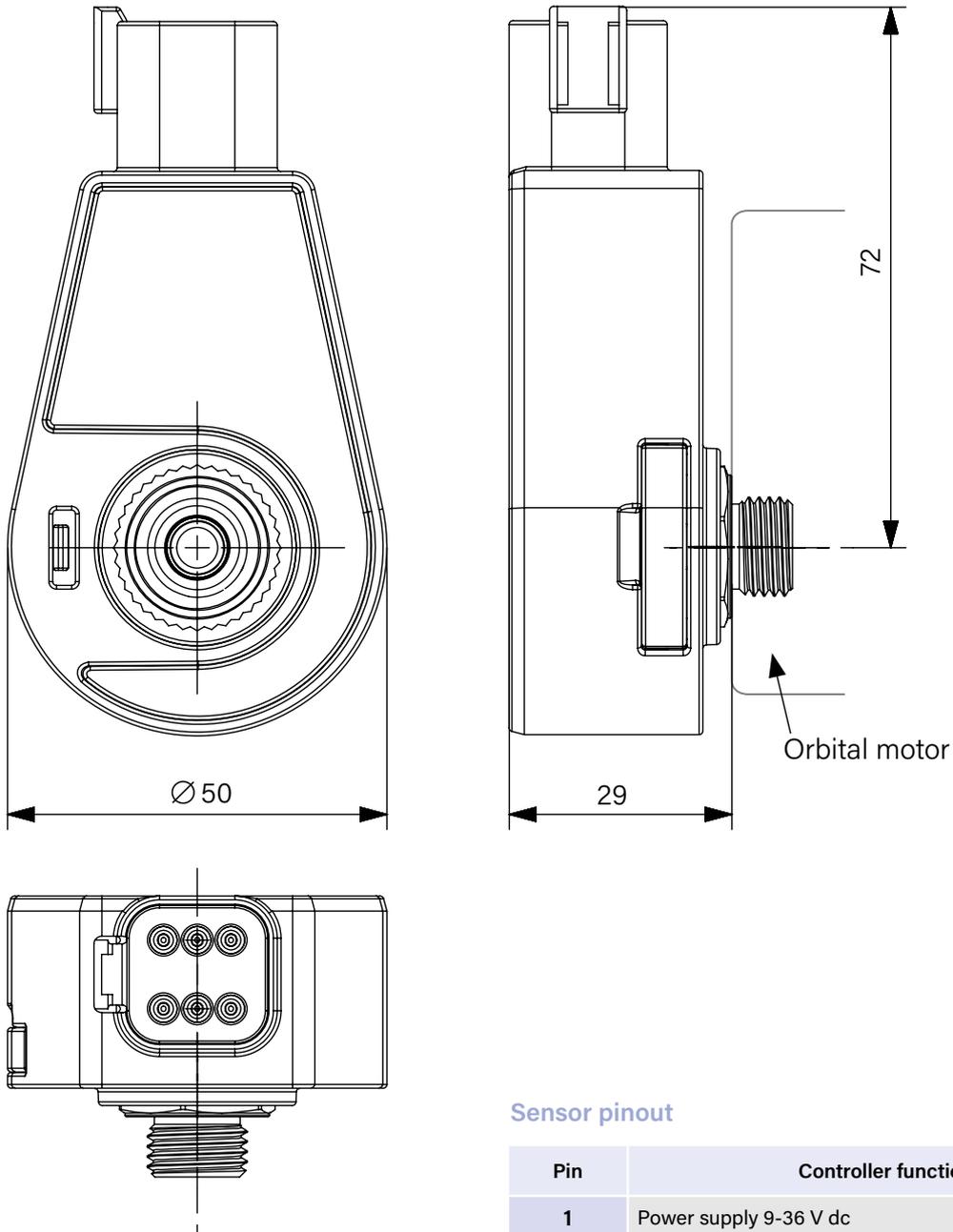
*Any application of the **VMD** speed sensor should be subjected to appropriate hazard and risk assessment, according to relevant safety standards for the application.

*Reliability data MTTF for the **VMD** speed sensor are available on request from your Danfoss representative.

VMD Speedsensor



PRODUCT OVERVIEW



Sensor pinout

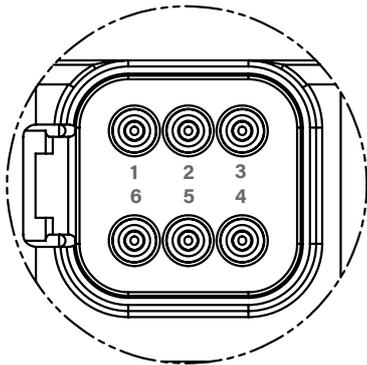
Pin	Controller function
1	Power supply 9-36 V dc
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3	D 1 (configurable output)
4	CAN L
5	CAN H
6	D 2 (configurable output)



VMD Speedsensor

PRODUCT OVERVIEW

Sensor pinout



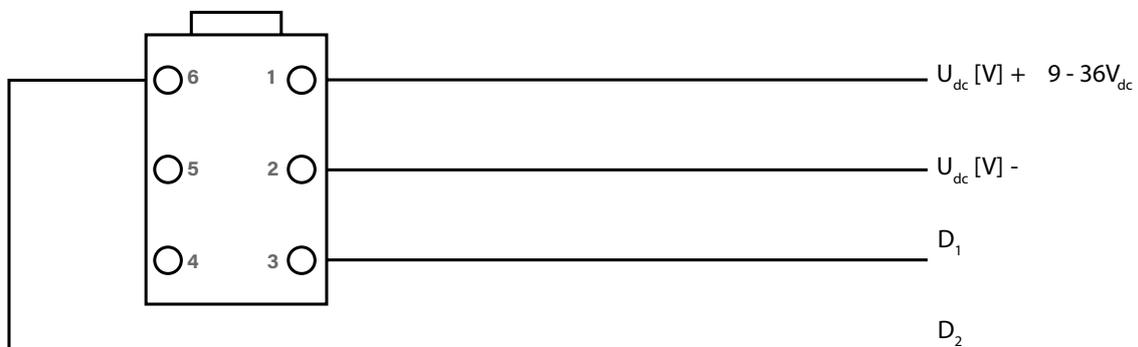
Mating connector

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

Pcs	Description	Deutch part no.	Color
1	Plug	DT06-6S-PO12	(black)
1	Wedglock	W6S-PO12	(green)
6	Solid Contacts	0462-209-16141	(nickel)
Options			
1	Boot compl.	DT6S-BT-BK	(black)

Wiring diagram

Wiring diagram: Pulse and quadrature mode



Wiring diagram: CAN mode

