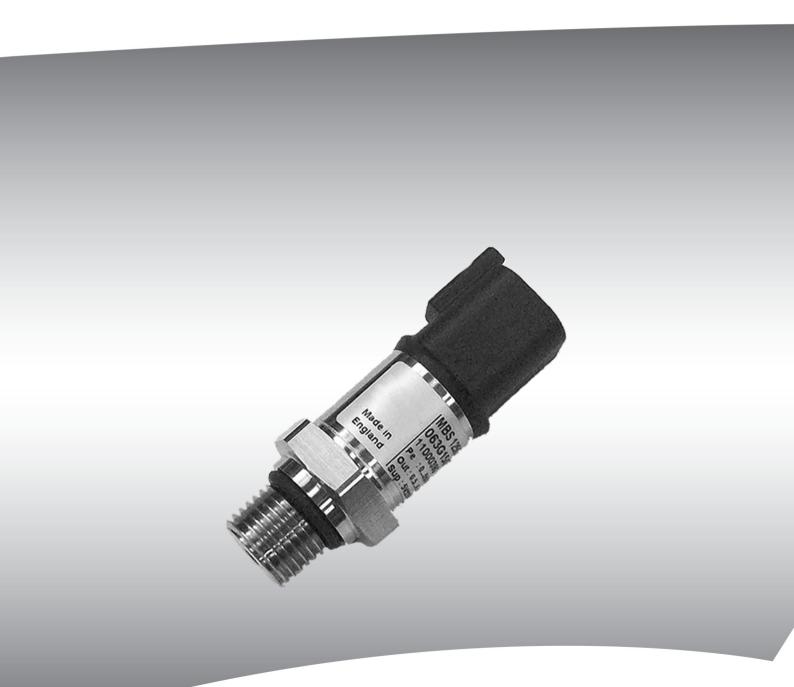


Technical Information

H1 Axial Piston Pumps and Motors

Pressure Sensor





Technical Information

Pressure Sensor

Revision History

Table of Revisions

Date	Changed	Rev
Jan 2014	Converted to Danfoss Layout - DITA CMS	ВА
Nov 2010	First edition	AA



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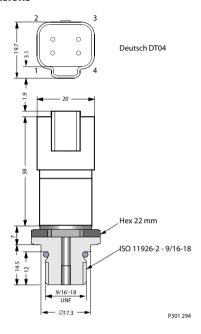
Product Overview

Description

The compact heavy duty OEM pressure transmitter MBS 1250 is designed for use in severe hydraulic applications.

The integrated pulse-snubber offers a high degree of protection against cavitations and liquid hammer, and the well thought out design results in excellent vibration stability and an exceptional robustness. The high degree of EMI protection equips the pressure transmitter to meet the most stringent industrial requirements.

Dimensions



Deutsch DT04	Output signal 10-90% of supply	
1	Supply -	
2	Supply +	
3	Not used	
4	Output +	

Mating Connector Kit Order Number

Description	Quantity	Ordering number	
Mating connector 1		Deutsch® DT06-4S	
Wedge lock	1	Deutsch® W4S	
Socket contact (16 and 20 AWG/0.5-1.3 mm ²)	3	Deutsch® 0462-201-1631 (female)	
Plug for not used pin 3	1	Plug Deutsch 114017	
Danfoss mating connector kit	1	11084525	



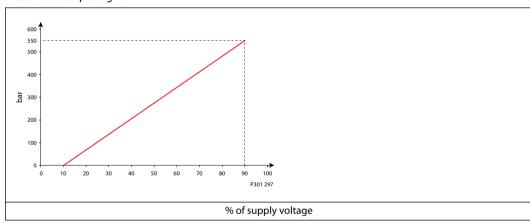
General Data

Pressure Sensor

Technical Data

	Min.	Nom.	Max.	Units	Comments
Pressure range charge pressure	0		55	bar	Part Number 11082093
Pressure range high pressure	0		550	bar	Part Number 11082094
Proof pressure	3x pressui	e range			
Burst pressure	7x pressure range				
Lifetime	>10^7 pressure cycles				
	0 100% FS				
Output signal range (see below graphic)	10	50	90	% Ratio metric output voltage	
Accuracy			±0.50	% FS	
Stability			±0.10	% /year	
Compensated temperature	-40		125	°C	
Thermal zero point shift			± 0.15	%FS/10K	
Thermal sensivity (span) shift			± 0.15	% FS/10K	
Hysteresis and repeatability			± 0.10	% FS	

Pressure vs. Output Signal



Technical Data

	Min.	Nom.	Max.	Units	Comments
Supply voltage	4.5	5.0	5.5	V DC	Regulated supply voltage must be provided. Sensor has reverse polarity protection and 35V over voltage protection.
Supply - current consumption			4.5	mA	
Load resistance [RL] (to 0V)	10			kΩ	
Output inpedance			90	Ω	
Wire fault detection	Short to supply				
Wire fault detection Short to ground					



General Data

Technical Data (continued)

		Min.	Nom.	Max.	Units	Comments
Protection code IP-class		IP67 and	IP67 and IP69K			IP67 w/o connector installed
						IP69k depends on mating connector
EMC-emission test levels		EN 6100 EN 6100	EN 61000-4-8, EN 61000-4-3, EN 61000-4-2, EN 61000-4-6, EN 61000-4-4, EN 61000-4-5, EN 55022, EN 61000-6-3			
EMC-immunity	Standard	EN 6100	0-4-3			
(EMI)	Strip line	100V/m,	80Mhz-1	Ghz		
	Absorber lines chamber	30V/m, 1	30V/m, 1.4Ghz-2.7Ghz			
ESD	Standard	EN 6100	EN 61000-4-2: 15 kV			
	Air discharge	15 kV				
	Contact discharge	8 kV	8 kV			
Automotive elect	rical transients	Comply	Comply with ISO7637			
Operating fluids		Hydrauli 520L046		cording to	Manual	
Operating temperature range		-40		125	°C	
Ambient temperature range		-40		100	°C	
Storage/transport temperature		-40		125	°C	
Assembly torque		35		38	Nm	

Technical Information Pressure Sensor



Products we offer:

- Bent Axis Motors
- Closed Circuit Axial Piston Pumps and Motors
- Displays
- Electrohydraulic Power Steering
- Electrohydraulics
- Hydraulic Power Steering
- Integrated Systems
- Joysticks and Control Handles
- Microcontrollers and Software
- Open Circuit Axial Piston Pumps
- Orbital Motors
- PLUS+1® GUIDE
- Proportional Valves
- Sensors
- Steering
- Transit Mixer Drives

Danfoss Power Solutions is a global manufacturer and supplier of high-quality hydraulic and electronic components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market. Building on our extensive applications expertise, we work closely with our customers to ensure exceptional performance for a broad range of off-highway vehicles.

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