

Electric Drives and Controls

Hydraulics

Linear Motion and Assembly Technologies

Pneumatics

Service

Rexroth Bosch Group

# Electronic pressure switch with two switching outputs

**RE 30279/11.14** Replaces: 10.08

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Type HEDE 11.../2/

Component series 1X Maximum operating pressure 400 bar



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# Features

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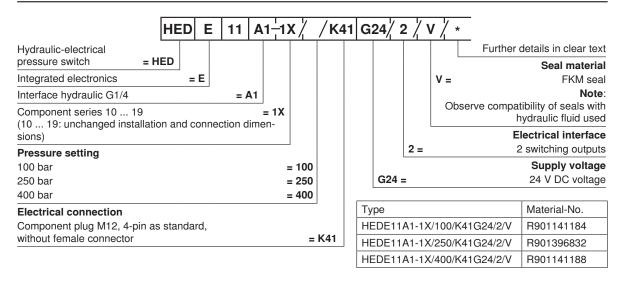
- Sensing of hydraulic pressures and their output as electrical switching signals
- 3 pressure ratings
- 2 High burst pressure range
- Simple adjustment of switching points by means of two, optimally readable adjustment rings
- Mechanical locking against unauthorised manipulations of the switching points
  - Parts that come into contact with the medium are made of stainless steel or FKM
  - Connection thread G1/4
  - High long-term stability
  - Electrical connection by means of 4-pin M12 connector
  - Two exclusive-OR switching outputs
  - Indication of switching status and readiness for operation
  - Compact design



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HEDE 11.../2/ RE 30279/11.14

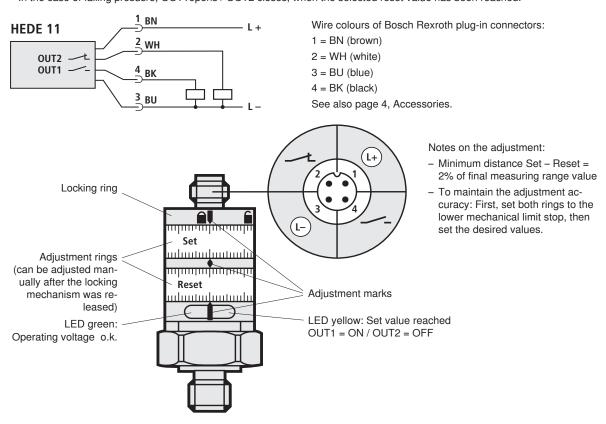
## **Ordering code**



# Function, electrical connection, adjustment

The electronic pressure switch senses the system pressure and switches the two outputs OUT1 (Pin 4) / OUT2 (Pin 2) according to the exclusive-OR principle.

- In the case of rising pressure, OUT1 closes / OUT2 opens, when the selected set value has been reached.
- In the case of falling presusre, OUT1opens / OUT2 closes, when the selected reset value has been reached.



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# **Technical data** (for applications outside these parameters, please consult us!)

General					
Weight	kg	Approx. 0.09			
Installation position		Optional			
Ambient temperature range	°C	-20 +80			
Storage temperature range	°C	-40 +100			
Hydraulic					
HEDE 11A1-1X/		100	250	400	
Switching point Set	bar	5 100	12.5 250	20 400	
Switching point Reset	bar	3 98	7.5 245	12 392	
Maximum operating pressure	bar	100	250	400	
Permissible overload pressure	bar	200	400	600	
Burst pressure	bar	1000	1000	1600	
Hydraulic fluid temperature range	°C	-25 to +80			
Material in contact with medium		V4A (1.4404), FKM			
Electrical Auxiliary power	VDC	18 36			
Current consumption	mA	< 25			
Current carrying capacity per switching output	mA	500			
Short-circuit protection		Clocked			
Overload-proof		Yes			
Reverse polarity protection		Yes			
Voltage drop	V	< 2			
Switching frequency	Hz	100			
Adjustment accuracy	%	< ±2.5 of final measuring range value			
Repeatability	%	< ±0.5 of final measuring range value			
Temperature influence	%	< ±0.5 of final measuring range value /10 K			
		from 0 +80 °C			
Switching cycles, minimum	50 million				
Type of protection to EN 60529	N 60529 IP 67				
Protection class to EN 50178		III			

# Note:

UL approval

EMC

Insulation resistance

To meet the "limited voltage current" requirements according to UL, the device must be supplied from an electrically isolated source and an overcurrent protection feature must be provided.

EN 61000-4-2 ESD | 4 kV CD / 8 kV AD

2 kV

10 V

UL 508

EN 61000-4-3 HF radiated | 10 V/m EN 61000-4-4 burst

EN 61000-4-6 HF conducted

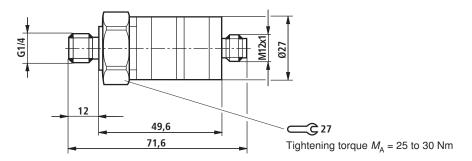
MΩ > 100 (500 V DC)



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# **Dimensions** (dimensions in mm)



# **Accessories: Plug-in Connectors**

Technical data				Designation	Material no.
Ampacity	4 A	15	42	04 POL (with 2 m cable)	R900773031
Temperature range	−2590 °C		<b>→</b> →	04 POL (with 5 m cable)	R900779498
Type of protection	IP 67	Ø10,5			•
Contacts	CuZn	2 2			
Contact surface	Gold-plated	] / '	Ť		
Housing	TPU	M 12x1			
Seal	FKM	15	27	04 POL (with 2 m cable)	R900779504
Fitting	CuZn/Ni			04 POL (with 5 m cable)	R900779503
Wire cross-section	4 x 0,34 mm				
Sheath material	PUR		"₩₩"		
Shield	Not connected	[ \\ \f\ \# \\ \#	F1- <del>1</del>		
	on plug side		ΙŢ		
Sheath diameter	Ø5.0 mm	M 12x1	<b>₩</b>		
Sheath colour	Black	] Ü	id		
Bending radius for	min. 50 mm				
dyn. application			Ø10,5		
Connection:		20	46	04 POL (without cable) <sup>1)</sup>	R900773042
1 BN /	2				
2 WH / \	2	M12x1			
	100	20	36	04 POL (without cable) <sup>1)</sup>	R900779509
3 BU	1 ( 0 0 )3	<del>                                   </del>	■ ■	04 i OL (Without cable)	11900779309
) <u> </u>					
4 BK //	4				
		TALE TO THE PARTY OF THE PARTY			
		M12x1	Ø15	<sup>1)</sup> Type of protection IP68	