# Electronic pressure switch with integrated analogue output

RE 30276/03.14 1/6 Replaces: 03.06 RE 30275

Type HEDE 10.../1/

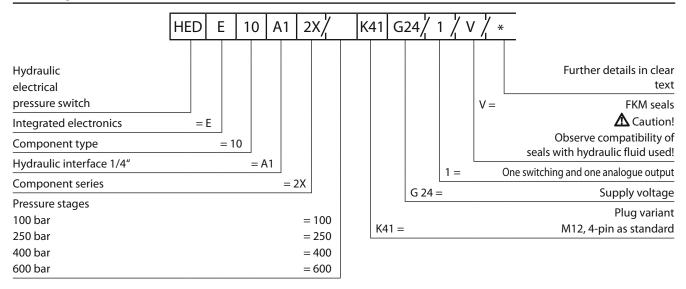
Component series 2X



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Pin assignment K41 Unit dimensions Accessories	dimensions 4	<ul> <li>Ceramic / capacitive sensor</li> <li>Connecting cable with 4-pin M12 plug on housing</li> <li>Accuracy class 1.0</li> <li>Connection thread G1/4</li> </ul>
		<ul> <li>Parts in contact with media are made of stainless steel, ce- ramic and FKM</li> </ul>

- Compact design
- One switching output and one analogue output

## Ordering code



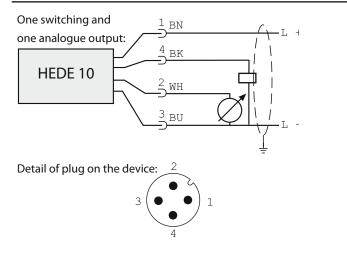
## Technical data (for applications outside these parameters, please consult us!)

			1			
Input variables						
Auxiliary energy U <sub>0</sub>		18 to 36 VDC				
Current consumptio	n		< 50 mA			
Measuring range		p <sub>N</sub> in bar	100	250	400	600
Overload safety		p <sub>max</sub> in bar	300	400	600	800
Burst pressure		p in bar	650	850	1000	1200
Output variables						
Analogue output		U	0 to 10 VDC minim	num load 2000	Ω	
		I	4 – 20 mA (max. lo	oad (U <sub>o</sub> – 10) x	50 Ω)	
	Rise time (10 to 90 %)	t	3 ms			
Switching output	Current carrying capacity	I	250 mA			
	Response time	t	< 3 ms (with respo	onse time set t	o dAP = 3)	
	Max. switching frequency	f	170 Hz (at dAP = 3	3)		
Characteristic curve deviation: (initial point setting according to DIN16086)		< ±0.5 %				
Temperature coefficien – Highest TC of zero – Highest TC of span			0.2 % / 10 k 0.2 % / 10 k			
Hysteresis			< ±0.1 %			
Repeatability			0.1 %			
Long-term drift und	er reference conditions (6 month	ns)	0.05 %			
Ambient conditions						
Limit temperature range		-20 to +80 °C				
Storage temperature range		-40 to +100 °C				
Medium temperature range		-25 to +80 °C				
Mechanical data						
Pressure port			G1/4			
Electrical connection			M12 plug-in conn	ection		

# Technical data (continued)

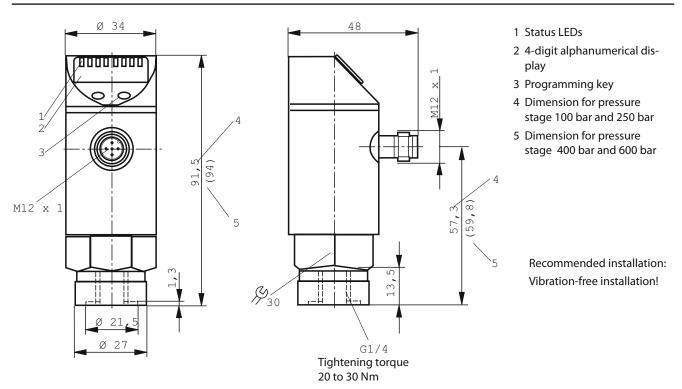
Programming options	Hysteresis / windo up, drop-out dela voltage or curren	y; attenuation		
Pressure stages	100	250	400	600
Switching point SP ba	1.0 100	2 250	4 400	6 600
Release position, rP ba	0.5 99.5	1 249	2 398	3 597
In increments of ba	0.5	1	2	3
Adjustable response time of a switch- ing output and resulting switching frequencyResponse time (dAP) m				
	0.0; 0.2 50.0			
Environmental compatibility				
Type of protection / housing to IEC 60529	IP67	IP67		
Class of protection EN 50178	111			
Insulation resistance MG	> 100 (500 VDC)			
Resistane to shock to IEC 60068-2-27	50 g, 11 ms			
Resistance to vibration to IEC 60068-2-6	20 g, 10 2000 Hz			
Switching cycles min.	100 million / 50 million with pressure stage 600 bar			
Approval	cULus			
EMC EN 61000-4-2 ESC EN 61000-4-3 HF radiated EN 61000-4-4 burs EN 61000-4-5 surge EN 61000-4-6 HF cable-bound	10 V/m 2 kV 0.5 / 1 kV			
Housing material	EPDM/X (Santoprene); FKM; PBTP (Pocan); PC (Macrolon); V2A (1.4301)			
Materials in contact with the medium	V2A (1.4305); ceramic; FKM			
Connection	M12 plug-in connection, gold-plated contacts			

# Pin assignment K41



1	BN	Brown
2	WH	White
3	BU	Blue
4	BK	Black

Unit dimensions (nominal dimensions in mm)

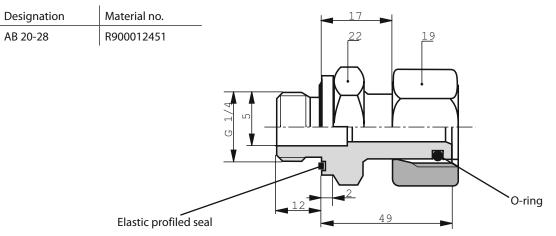


## Accessories

Cable sockets:

Technical data:			Designation	Material no.
Current carrying ca- pacity	4 A	15 42 .	04 POL (with 2 m cable)	R900773031
Temperature range	–2590 °C		04 POL (with 5 m cable)	R900779498
Type of protection	IP 67			·
Contacts	CuZn			
Contact surface	Gold-plated	M 12x1		
Housing	TPU			
Seal	FKM		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 on plug side			
Sheath diameter	Ø 5.0 mm			
Sheath colour	Black	Ψ Ψ		
Bending radius for dyn. application	min. 50 mm	Ø10,5		
Connection: $\begin{array}{c}       \frac{1}{2} BN \\       \frac{1}{2} WH \\       \frac{1}{2$	2	20 46 M12x1	04 POL (without cable) <sup>1)</sup>	R900773042
3 BU     3 BU     4 BK   / 	$1 \left( \begin{array}{c} 0 \\ 0 \\ 4 \end{array} \right) 3$	20 36 36 M12x1 M12x1	04 POL (without cable) <sup>1)</sup>	R900779509

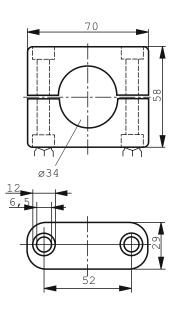
#### Hydraulic fitting:



#### Accessories (continued)

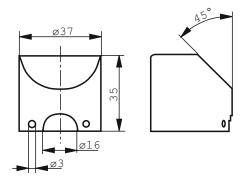
#### Mounting clamp for HEDE 10

Designation	Material no.
Mounting clamp	R900786138



#### Protective cap for HEDE 10

Designation	Material no.
Protective cap M12	R900786141



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