* Pressure switch, Series PE5 electronic, with digital display, adjustable, Push-in fitting Ø 4 mm or thread connection G1/4, -1 - 10 bar, Switch outputs: 2x PNP; 2x NPN; 1x PNP and analog or 1x NPN and analog



Version Design

electronic pressure switch

Ambient temperature min./max. Medium

Hysteresis in % (from end value) Compressed air class

Local power consumption Output signal analog

4-20 mA

< 5 ms

Response time Switching logic

Protection class according to DIN EN 60529:2000 materials:

Housing

with piezo-resistive sensor element, adjustment via push buttons, LCD-Display; 2 Schaltzustandsanzeigen (out1, out2), 4-digit Anzeige und Einheitenanzeige (bar, psi, kPa, inHg für Vakuum) compressed air acc. to ISO 8573-1; 2001 class 7-4-3 < 50 mA 0-100%

NO/NC (customer-specific programming) 1P65

acrylonitrile butadiene caoutchouc Polycarbonate

short circuit resistance: clocking Repetitive precision in % (of the final value): < 2% including temperature drift Analog output signal: switchable signal interface (voltage interface 0 to 10 V, current interface 4 to 20 mA)

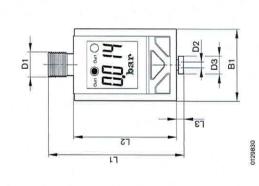
Preparation of compressed air - FRL

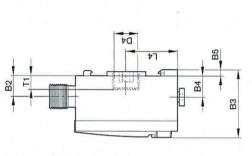
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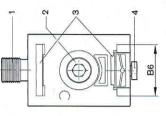
	Port	Output	Working pressure min/max	Electr. con- nection	Protection against overpres- sure	Weight	Note	Part No.
			[bar]		[bar]	[kg]		
	94	2x PNP	9-0		15 bar		Fig. 1	R412007974
	G 1/4	2x PNP	9-0		15 bar		Fig. 2	R412007975
V	0 4	2x NPN	9-0		15 bar		Fig. 1	R412007976
	G 1/4	2x NPN	9-0		15 bar		Fig. 2	R412007977
	9 4	2x PNP	0 - 10		15 bar		Fig. 1	R412007978
	G 1/4	2x PNP	0 - 10		15 bar		Fig. 2	R412007979
	4 Ø	2× NPN	0 - 10		15 bar		Fig. 1	R412007980
	G 1/4	2x NPN	0 - 10		15 bar		Fig. 2	R412007981
	Ø 4	1x PNP1x analog	9-0		15 bar		Fig. 1	R412007982
	G 1/4	1x PNP1x analog	9-0		15 bar		Fig. 2	R412007983
	8 4	1x NPN1x analog	9-0		15 bar		Fig. 1	R412007984
	G 1/4	1x NPN1x analog	9-0		15 bar	C	Fig. 2	R412007985
₩ 1	Ø	1x PNP1x analog	0 - 10	MICX	15 bar	0.00	Fig. 1	R412007986
	G 1/4	1x PNP1x analog	0 - 10		15 bar		Fig. 2	R412007987
	8 4	1x NPN1x analog	0 - 10		15 bar		Fig. 1	R412007988
	G 1/4	1x NPN1x analog	0 - 10		15 bar		Fig. 2	R412007989
	4 Ø	2x PNP	-1-0		5 bar		Fig. 1	R412007990
	G 1/4	2x PNP	-1-0	200	5 bar		Fig. 2	R412007991
	40	2x NPN	-1-0		5 bar	li	Fig. 1	R412007992
	G 1/4	2x NPN	-1-0		5 bar		Fig. 2	R412007993
	Ø 4	2x PNP	1-1-		5 bar		Fig. 1	R412007994
	G 1/4	2x PNP	1-1-	3113	5 bar		Fig. 2	R412007995
	Ø 4	2x NPN	Ţ		5 bar		Fig. 1	R412007996
	G 1/4	2x NPN	-1-1		5 bar		Fig. 2	R412007997

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dimensioned drawing, Fig. 1





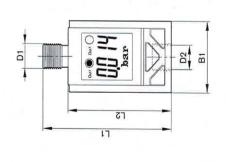


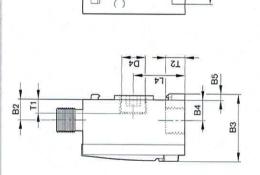
- Electrical connection
 G 1/4 port (closed)
 mounting clips for holder and hat rail
 Push-in fitting Ø 4 mm

	B	B2	B3	B4	82	Be	5	20	8	7	5	ខ	ខ	4
Fig. 1	35	10.2	33	10.2	က	25	M12x1	4	7.5	G 1/4	67.3	50.5	3.5	25
	F	12		-11										
Fig. 1	9.5	J.												

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dimensioned drawing, Fig. 2





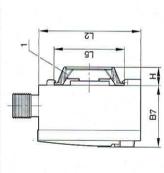
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- 1) Electrical connection 2) G 1/4 port (closed) 3) mounting clips for holder and hat rail 4) Port G 1/4

	11	B2	B3	B4	BS			22	23	D4	5	[2	L3	L4
	32	10.2	33	10.2	3	25	M12x1	G 1/4	1	G 1/4	63.8	50.5	L	25
	F	T2								1914				
0.757	9.5	9.5												

mounting: holder and hat rail

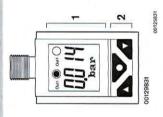


- 1) holder 2) hat rail

					35	50.5	7 5/15	6.0	30
		Ì			L5	L2	Ħ	Ŧ	87

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Display and operation area



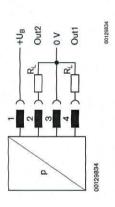
- 1) LCD display 2) control panel with 3 buttons

plug assignment, Electrical connection M12x1, 4-pin

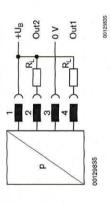


Pin 1: operational voltage + UB Pin 2: switch output Out2, (PNP/NPN/analog) pin 3: 0 V Pin 4: switch output Out1, (PNP/NPN)

block diagram, 2 x PNP

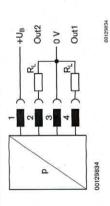


block diagram, 2 x NPN

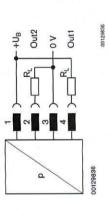


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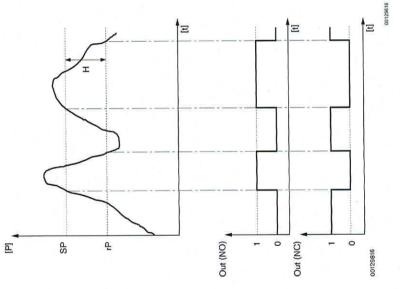
block diagram, 1x PNP and 1x analog



block diagram, 1x NPN and 1x analog



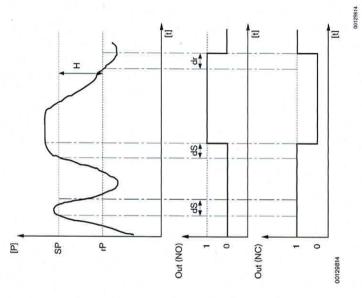
Hysteresis function: switching and resetting behavior dependent on pressure p and time t



H: Hysteresis SP = switching point, rP = resetting point Out (NC): switch output, break contact Out (NO): switch output, make contact

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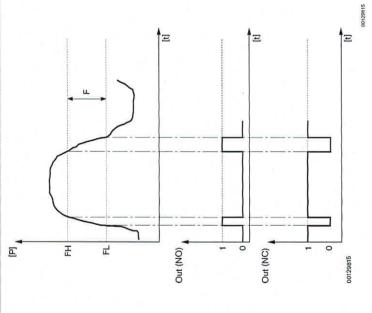
Delayed hysteresis function: switching and resetting behavior depending on pressure p and time t



H: Hysteresis SP = switching point, rP = resetting point Out (NC): switch output, break contact Out (NO): switch output, make contact

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Window function: switching and resetting behavior depending on pressure p and time t



F: pressure window FH: pressure band, upper value FL: pressure band, lower value Out (NC): switch output, break contact / Out (NO): switch output, make contact