The Short One

Low Pressure Transmitter in Short and Compact Design

Main features

- Measuring ranges 0...10 mbar to 0...40 bar
- Standard signals for the industry, hydraulics and pneumatics
- Plug systems MVS/C acc. to DIN EN 175301-803 C
- small design ~ max. 50 mm in length
- large variety of electrical connections

Applications

- General industrial applications
- Pneumatics
- Mechanical engineering
- Automotive industry

Description

The low pressure transducer SIS features a short and compact design. This allows for a high level of integration and the SIS can be installed in applications with limited space. The high level of reliability and customization are a key factor for using SIS pressure transducers. The modular design conpect allows for a highly felixible and custom product design and featuring all standard pressure and electrical connections. A wide variety of output signals can be offered.







S I S Low Pressure Transmitter in Short and Compact Design

Specifications									
PRESSURE RANGE									
Measuring range*	p [mbar]	10	20	40	60	100	160	400	600
Overload pressure	p [mbar]	50	100	200	300	500	800	1200	1800
Burst pressure	p [mbar]	150	300	600	900	1500	2000	2000	3000
Measuring range*	p [bar]	1,6	2,0	2,5	4,0	6,0	10,0		
Overload pressure	p [bar]	6	6	6	10	20	20		
Burst pressure	p [bar]	9	9	9	15	30	30		
Measuring range*	p [bar]	16	20	25	40				
Overload pressure	p [bar]	40	40	40	60				
Burst pressure	p [bar]	60	60	60	80	(vaccum,	relative pres	sure, +-	
						or absolu	ute pressure	are available	2)
ELECTRICAL PARAMETER		2-wire		3-wire		3-wire			
Output signal*		420 mA		05 V		0,54,5 \	ratiometric		
Supply voltage	$U_{s} [V_{dc}]$	1032**		832		5 ± 10 %			
Load resistor	R_{A} in Ohm	$R_A = (Us - 10)$	/)/0,02A	≥4.7kΩ		≥4.7kΩ			
Response time	t [ms]	≤ 2		≤ 1		≤ 1			
Maximum supply current	I [mA]	23		10		7,5			
Isolation voltage*	$U [V_{DC}]$	50			** > AppN	ote (see www	.adz.de)		
ACCURACY									
Accuracy @ RT	% of the range	≤ 1,00***	Option \leq	0,5	*** incl. no	nlinearity, hy	steresis, repo	atability, ze	ro-offsetand
	BFSL	≤ 0,25			final-o	ffset (acc. to	IEC 61298-2)	
Non-linearity	% of the range	≤ 0,15							
Stability/year	% of the range	≤ 0,10							
ACCEPTABLE TEMPERATU		40.05							
		-4085							
Ambience		-4085							
Storage		-4085			**** The sec		laurant fan th		had you as a why
Compensated range	I [C]	-1070	V		outside th	ean IC are re	evant for the	total error c	ted range only,
Mean TC renge	% of the range	$\leq 0,15/10$			outside th	e compensati	tu range the	LULAI CITUL S	сасстепся арріу.
	% of the range	: ≤ 0,15 / 10							
	% of the range	-40 C 3,C							
	% of the range	: 05 C 3,C	0%0						
MECHANICAL PARAMETE	R								
Wetted components		silicon NB	R O_ring al	uminium	nlastic (e.a.	PAGG)			
Housing*		stainless steel							
Weight	m [a]	80-120 depending on design							
Shock resistance/drop	u [3]	1000 acc to DIN FN 60068-2-32 – free fall							
Vibration resistance	q	$20 \qquad \text{acc. to DIN EN 60068-2-6} = \text{vibration sinusoidal}$							
Shock resistance/constant	0	25 are to DIN EN 60068-2-27 – shock							
Approvals	9 CE Declaration	ns of conformity 2014/30/EU							
	Note: Not eve	ote: Not every specification listed here applies to all configurations, thus affecting the appropriate approval.							
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IP system of protection (IEC 605029) up to IP69K

The IP system of protection as specified in the data sheets generally applies, with appropriate mating plug connected.



* customer specific configurations available

Electrical Configuration*

Cable	DIN EN 175301-803-C	Packard Metripack	JuniorTimer
2-wire	2-wire	2-wire	2-wire
rt: UB+ sw: out ws: nc	1: UB+ 2: out 3: nc ⊕: nc	A: UB+ B: UB+ C: out	1: UB- 2: out 3: UB+
3-wire	3-wire	3-wire*	3-wire*
rt: UB+ sw:UB- ws:out	1: UB+ 2: UB- 3: out ⊕: nc		

nc = not connected

The electrical connection must be made in accordance with the respective connection diagram unless otherwise agreed upon.

* custom-made adjustments are possible

Product line

DS5	Electronic Pressure Switch	SMC	Pressure Transmitter with CANopen Interface and J1939
DPSX9I	Intrinsically Safe Electronic Pressure Switch for Current	SME	Pressure Transmitter in Miniature Design
DPSX9U	Intrinsically Safe Electronic Pressure Switch for Voltage	SMF	Pressure Transmitter with Flush Diaphragm
PS1/17	Level Sensor	SMH	High Pressure Transmitter
PSX2	Intrinsically Safe Level Sensor	SML	Pressure Transmitter for Industrial Application
SH2	Pressure transmitter for hydrogen applications	SM0	Pressure Transmitter in Mobile Hydraulics
SHP	High Precision Pressure Transmitter	SMX2	Intrinsically Safe Pressure Transmitter for Industrial Application
SIS	Low Pressure Transmitter in Short and Compact Design	TPSE	Multi-Function Transmitter for Pressure and Temperature – external sensor
SIL	Low Pressure Transmitter for Industrial Application	TPSI	Multi-Function Transmitter for Pressure and Temperature - internal sensor
SKE	High Temperature Pressure Transmitter with Detached Electronics	TS1	Temperature transmitter for industrial application
SKL	High Temperature Pressure Transmitter with Cooling Fins		



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Subject to change due to technical progress. Rev. 03/2020