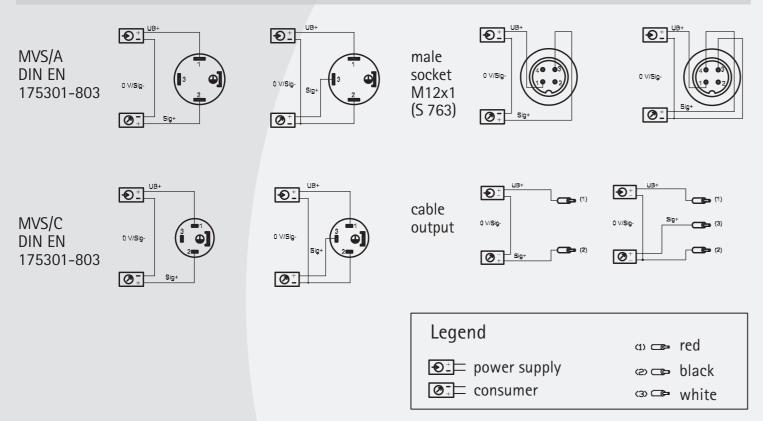
SIL

Low Pressure Transmitter for Industrial Applications

Electrical Connections* (left: 2-wire, right: 3-wire)



* custom-made adjustments acc. to pressure connections and connecting options are possible

Prod	Product line								
DS4	Electronic Pressure Switch	SMC	Pressure Transmitter with CANopen Interface						
DPSX91	Intrinsically Safe Electronic Pressure Switch for Current	SME	Pressure Transmitter in Miniature Design						
DPSX91	J Intrinsically Safe Electronic Pressure Switch for Voltage	SMF	Pressure Transmitter with Flush Diaphragm						
PS1	Level Sensor	SMH	High Pressure Transmitter						
PSX2	Intrinsically Safe Level Sensor	SML	Pressure Transmitter for Industrial Application						
SHP	High Precision Pressure Transmitter		Pressure Transmitter in Mobile Hydraulics						
SIS	Low Pressure Transmitter in Short and Compact Design	SMS	OEM Pressure Transmitter for Hydraulics and Pneumatics						
SIL	Low Pressure Transmitter for Industrial Application	SMX	Intrinsically Safe Pressure Transmitter for Industrial Application						
SKE	High Temperature Pressure Transmitter with Detached Electronics	TPS	Multi-Function Transmitter for Pressure and Temperature						
SKL	High Temperature Pressure Transmitter with Cooling Fins								

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Low Pressure Transmitter for Industrial Applications

Main features

- Measuring ranges 0...10 mbar to 0...40 bar
- Standard signals 4...20 mA, 0...10 V, 1...5 V
- Highly flexible options by its modular design
- Highly reliable

Applications

- General industrial use
- Hydraulics
- Pneumatics
- Mechanical engineering
- Plant engineering and automation technology

Description

The Si-based pressure sensors which in their external design are comparable to the SML model can make use of the advantages of silicon technology. These benefits include lower overall production costs. Thanks to its design, all customary and client-specific pressure connection configurations are possible. Also, the complete range of electrical adapters, which are already known from the SML series, can be integrated. Its modular design permits reasonable manufacture also in medium-size batches that can be supplied within short periods of time.









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Low Pressure Transmitter for Industrial Applications

Specifications

	•										
	Pressure range										
	Measuring range*	p [mbar]	10	16	20	25	40	60	100		
	Overload pressure	p [mbar]	300	300	300	300	300	300	300		
	Burst pressure	p [mbar]	500	500	500	500	500	500	500		
	Measuring range*	p [mbar]	160	200	250	400	600	1000			
	Overload pressure	p [mbar]	300	300	2000	2000	2000	2000			
	Burst pressure	p [mbar]	500	500	3000	3000	3000	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	100	100	(vaccum, re	lative press	ure, + -		
	Burst pressure	p [bar]	60	60	150	150	or absolute	e pressure a	re available)		
	Electrical parameter		signal			$U_{s} \left[V_{DC} \right]$	$R_{L}[k\Omega]$	RA [Ω]			
	Output signal * and	$R_{\scriptscriptstyle A}$ in Ohm	420 mA	(2-wire, 3-	wire)	932		acc. to $R_A =$	= < (U _s - 10V) / 0,02 A		
	maximum acceptable burden	R _A	$010 V_{\text{DC}}$	(3-wire)		1232	> 5,0				
			$15 V_{\text{DC}}$			832	> 1,0				
			0,54,5 V _{DC}	ratiometric		5 <u>+</u> 10%	> 4,7				
	Response time * (10-90%)	t [ms]	< 1								
	Withstand voltage	U [V _{DC}]	350								
	Accuracy										
	Accuracy @RT	% of the range	≤ 1,0 ^{**}	Option $\leq 0,5$		** incl. nonlinearity, hysteresis, repeatability, zero-					
						offset- a	offset- and final-offset (acc. to IEC 61298-2)				
		BFSL	≤ 0,25								
	Non-linearity	% of the range	≤ 0,15								
	Repeatability	% of the range	≤ 0,10								
	Stability/year	% of the range	\le 0,10								
	Acceptable temperature ran	ges									
	Measuring medium	T [°C]	-4085								
	Ambience	T [°C]	-4085								
	Storage	T [°C]	-4085								
	Compensated range*	T [°C]	-1070								
	Temperature coefficient with	in the compen	sated range								
	Mean TC offset	% of the range	\leq 0,15 / 10	K							
	Mean TC range	% of the range	\leq 0,15 / 10	K							
	Total error	% of the range	-40°C 3,0	00%							
		% of the range	85°C 3,0	0%							
	Mechanical parameter										
	Parts in contact with the mea	asuring mediur	n*	silicon							
	Housing*			stainless st	eel						
	Shock resistance	g		1000	acc. to IEC	68-2-32					
	Vibration resistance	g		20	acc. to IEC	68-2-6 and	IEC 68-2-36	5			
	Mass	m [g]		80-120	depending	on design					
	CE - conformity			EC Directive	e 89/336/EV	VG					
	IP system of protection	The IP system of protection as specified in the data sheets generally applies, with their mating plug connected									
		Relative pressure transmitters usually require a ventilated mating plug and/or cable to aloow for pressure									
	* other upon request	compensation	. From a pre	a pressure range of 60bar, a ventilated mating plug and/or cable is not necessarily required.							



cable output



Connectors*

male socket

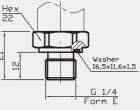
M12x1 (S 763)

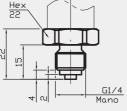


Pressure Connections*

G 1/4 A; DIN 3852; Form E

G 1/4 B

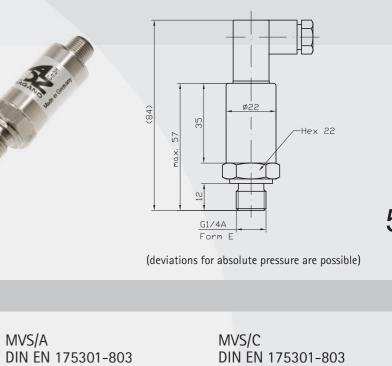


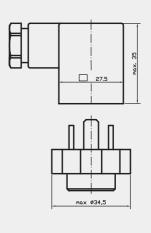


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Low Pressure Transmitter for Industrial Applications

SIL with MVS/C connector

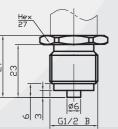








G 1/2 B



1/4 NPT

