#### Main features

- Measuring ranges 0...0.6 bar to 0...40 bar
- Standard signals for the industry, hydraulics and pneumatics
- Plug systems MVS/A acc. to DIN EN 175301-803 A, MVS/C acc. to DIN EN 175301-803 E
- NEW >>> small design ~ max. 50 mm in length
- NEW >>> large variety of electrical connections

## **Applications**

- General industrial applications
- Hydraulics
- Pneumatics
- Mechanical engineering
- Automotive industry
- Plant engineering and automation technology

#### Description

For its short design, it can be applied in largely confined space for installation. The SIS series distinguishes itself by a high degree of variability of both the electrical and mechanical connecting options. Moreover, its proven modular concept provides for use of the most common types of signals in industry and it also allows manufacture at reasonable cost, also in small batches.

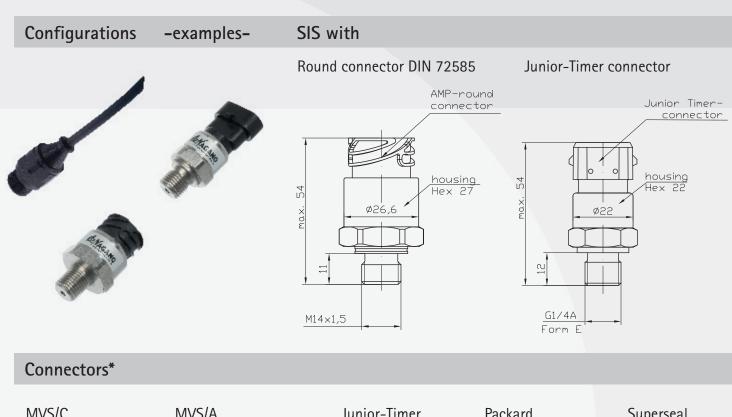


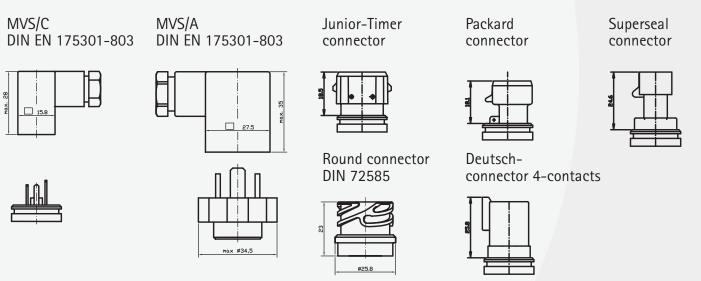




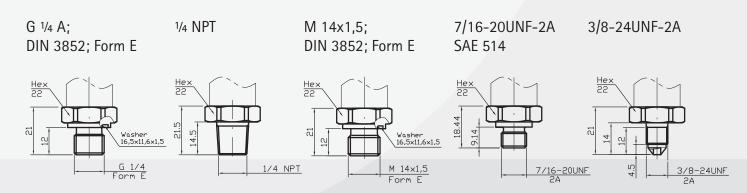


Specifications								
Pressure range								
Measuring range*	p [bar]	0,6	1,0	1,6	2,0	2,5	4,0	6,0
Overload pressure	p [bar]	6	6	6	6	6	10	20
Burst pressure	p [bar]	9	9	9	9	9	15	30
Measuring range*	p [bar]	10	16	20	25	40		
Overload pressure	p [bar]	20	40	40	100	100	(vaccum re	elative pressure, +-
Burst pressure	p [bar]	30	60	60	150	150		e pressure are available)
Buist pressure	b [out]	30	00	00	100	100	01 0030101	e pressure are available)
Electrical parameter								
paraetc.		signal			$U_s [V_{DC}]$	$R_{L}[k\Omega]$	RA [Ω]	
Output signal * and	R <sub>A</sub> in Ohm	420 mA	(2-wire, 3-	wire)	932	nį (kas)		= < (U <sub>s</sub> - 10V) / 0,02 A
maximum acceptable burden		010 V <sub>DC</sub>	(3-wire)	wiicj	1232	> 5,0	acc. to N <sub>A</sub> -	- < (0 <sub>5</sub> - 10V) / 0,02 A
maximum acceptable burden	n <sub>A</sub>		(3-WIF)					
		15 V <sub>DC</sub>			832	> 1,0		
			ratiometric		5 ±10%	> 4,7		
Response time * (10-90%)	t [ms]	< 1						
Withstand voltage	U [V <sub>DC</sub> ]	350						
Accuracy								
Accuracy @RT	% of the range	≤ 1,00**	option ≤ 0	,50				eatability, zero-offset-
					and fina	l-offset (acc	. to IEC 6129	18-2)
	BFSL	≤ 0,25						
Non-linearity	% of the range							
Repeatability	% of the range							
Stability/year	% of the range	≤ 0,10						
Acceptable temperature ran	ges							
Measuring medium	T [°C]	-40105						
Ambience	T [°C]	-4085						
Storage	T [°C]	-40105						
Compensated range*	T [°C]	-1070						
Temperature coefficient with	•	_						
Mean TC offset	% of the range							
Mean TC range	% of the range	≤ 0,15 / 10	OK					
Total error	% of the range		,00%					
	% of the range	85°C 2,	00%	125°C	2,00%			
Mechanical parameter								
Parts in contact with the me	asuring mediur	n*	silicon, stai	inless ste	el, brass, plasti	С		
Housing*			silicon, stai	inless ste	el, brass, plasti	С		
Shock resistance	g		1000	acc. to	EC 68-2-32			
Vibration resistance	g		20	acc. to	EC 68-2-6 and	I IEC 68-2-3	6	
Mass	m [g]		80-120	(depend	ing on design)			
CE - conformity	EC Directive 89/336/EWG							
IP system of protection	IP system of protection The IP system of protection as specified in the data sheets generally applies, with their mating plug connected						r mating plug connected.	
Relative pressure transmitters usually require a ventilated mating plug and/or cable to aloow for						aloow for pressure		
* other upon request	compensation	. From a pr	essure range	of 60bar	, a ventilated n	nating plug a	and/or cable	is not necessarily required.





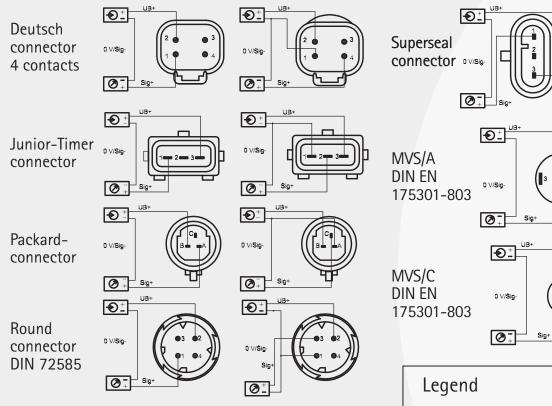
## **Pressure Connections\***



<sup>\*</sup> custom-made adjustments acc. to pressure connections and connecting options are possible

# S Low Pressure Transmitter in Short and Compact Design

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



175301-803

MVS/C
DIN EN
175301-803

Legend

Ssure
re possible

175301-803

Ov/sigSig+

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

### **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	U 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	SMO	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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