

Specification

PRESSURE RANGE

Measuring range*	p [bar]	1,0	1,6	2,0	2,5	4,0	6,0	10,0
Overload pressure	p [bar]	6	6	6	6	10	20	20
Burst pressure	p [bar]	9	9	9	9	15	30	30
Measuring range*	p [bar]	16	20	25	40	60	100	160
Overload pressure	p [bar]	40	40	100	100	200	200	400
Burst pressure	p [bar]	60	60	150	150	300	300	600
Measuring range*	p [bar]	200	250	400	600	1000	1600	2000
Overload pressure	p [bar]	400	750	750	840	1200	2400	2400
Burst pressure	p [bar]	600	1000	1000	1050	1500	3000	3000

ELECTRICAL PARAMETER

	signal	U_s [V _{DC}]	R_L [k Ω]	RA [Ω]
Output signal * and maximum acceptable burden R_A	R_A in Ohm	4...20 mA (2-wire, 3-wire)	9...32	acc. to $R_A = (U_s - 10V) / 0,02 A$
		0...10 V _{DC} (3-wire)	12...32	> 5,0
		1...5 V _{DC}	8...32	> 1,0
		0,5...4,5 V _{DC} ratiometric	5 \pm 10%	> 4,7
Response time * (10-90%)	t [ms]	< 1		
Withstand voltage	U [V _{DC}]	350	option 710	

ACCURACY

Accuracy @RT	% of the range $\leq 0,50^{**}$		
	BFSL $\leq 0,125$		
Non-linearity	% of the range $\leq 0,15$		
Repeatability	% of the range $\leq 0,10$	** incl. nonlinearity, hysteresis, repeatability, zero-offset- and final-offset	
Stability/year	% of the range $\leq 0,10$	(acc. to IEC 61298-2)	

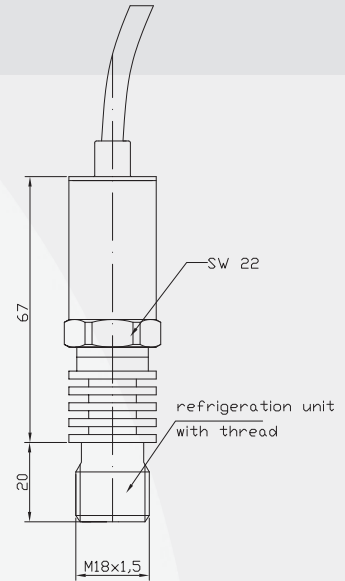
ACCEPTABLE TEMPERATURE RANGES

Measuring medium, always	T [°C]	-40...160
Measuring medium, up to 15 min		-40...180
Ambience	T [°C]	-40...105
Storage	T [°C]	-40...105
Compensated range*	T [°C]	-20...85
Temperature coefficient within the compensated range		
Mean TC offset	% of the range $\leq 0,15 / 10K$	
Mean TC range	% of the range $\leq 0,15 / 10K$	
Total error	% of the range -40°C	2,00%
	% of the range 105°C	2,00%

MECHANICAL PARAMETER

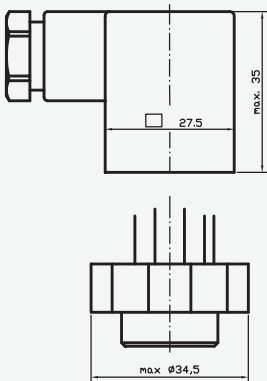
Parts in contact with the measuring medium*		stainless steel
Housing*		stainless steel
Shock resistance	g	1000 acc. to IEC 68-2-32
Vibration resistance	g	20 acc. to IEC 68-2-6 and IEC 68-2-36
Mass	m [g]	~ 250 (depending on design)
CE - conformity		EC Directive 89/336/EWG
IP system of protection	The IP 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 allow for pressure compensation. From a pressure range of 60bar, a ventilated mating plug and/or cable is not necessarily required.	
* others upon request		

Configuration -example-

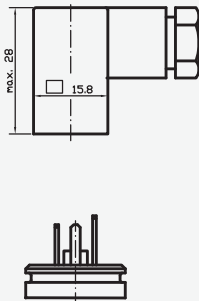


Connectors*

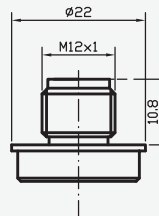
MVS/A
DIN EN 175301-803



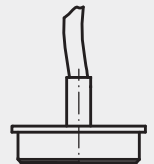
MVS/C
DIN EN 175301-803



male socket
M12x1 (S 763)

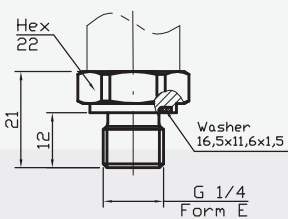


Cable output
steel

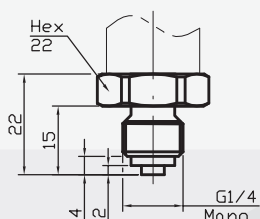


Pressure Connections*

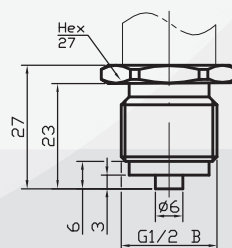
G 1/4 A; DIN 3852; Form E



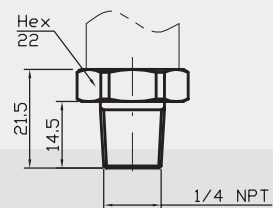
G 1/4 B



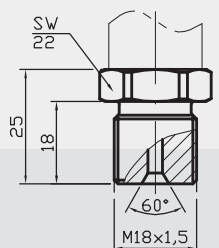
G 1/2 B



1/4 NPT



M18x1,5



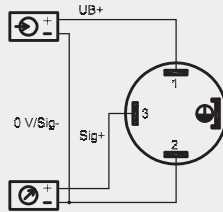
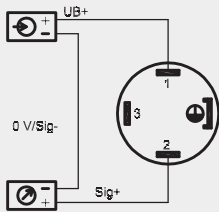
* Custom-made adjustments acc. to pressure connections and connecting options are possible.

SKL

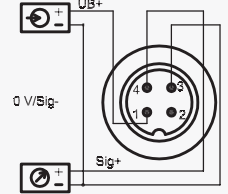
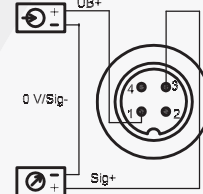
High Temperature Pressure Transmitter with Cooling Fins

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

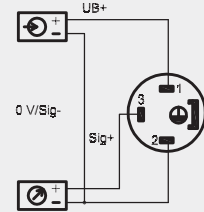
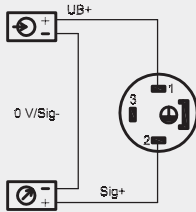
MVS/A
DIN EN
175301-803



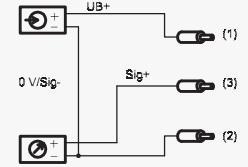
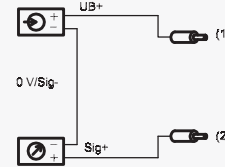
male
socket
M12x1
(S 763)



MVS/C
DIN EN
175301-803



cable
output



Legend

= power supply
 = consumer

⟨1⟩ = red
⟨2⟩ = black
⟨3⟩ = white

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

Product line

DS4	Electronic Pressure Switch	SMC	Pressure Transmitter with CANopen Interface
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	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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