D S 4

Electronic
Pressure Switch

Specifications

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

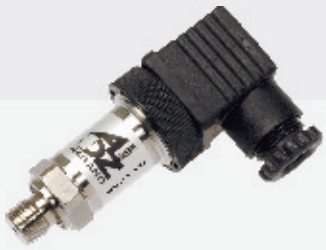
Electrical parameter				
Switch point		**individually adjustable via external control keys or factory setting**		
Number		1 (npn or pnp)		
Function		NO / NC, windows- and hysteresis function freely adjustable		
Switching voltage	U [V_{DC}]	10-30		
Switching current	I [A]	1,7		
Supply voltage	U [V_{DC}]	10-30		
Time lag	t [s]	0-600		
Withstand voltage	U [V_{DC}]	350	option 710	

Accuracy			
Accuracy @RT	% of the range	≤ 1,5**	** incl. nonlinearity, hysteresis, repeatability, zero-offset- and final-offset
	BFSL	≤ 0,125	(acc. to IEC 61298-2)
Non-linearity	% of the range	≤ 0,15	
Repeatability	% of the range	≤ 0,10	
Stability/year	% of the range	≤ 0,10	

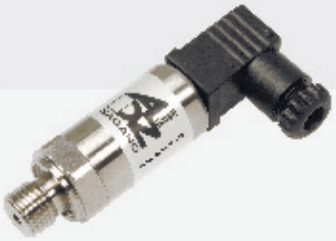
Acceptable temperature ranges			
Measuring medium	T [°C]	-40...125	
Ambience	T [°C]	-20...85	
Storage	T [°C]	-40...125	
Compensated range*	T [°C]	-20...85	
Temperature coefficient within the compensated range			
Mean TC offset	% of the range	≤ 0,15 / 10K	
Mean TC range	% of the range	≤ 0,15 / 10K	
Total 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]	~ 100	(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 aloow for pressure		
*** others upon request**	compensation. From a pressure range of 60bar, a ventilated mating plug and/or cable is not necessarily required.		

Configurations -examples-



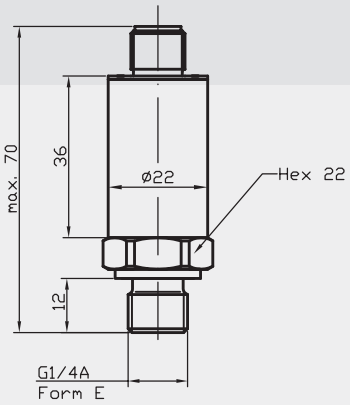
MVS/A



MVS/C

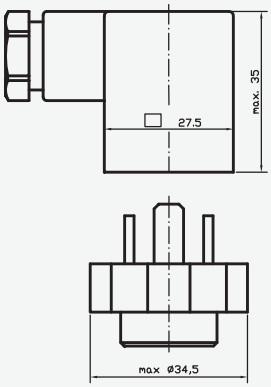
M12x1
(S 763)

DS4 with M12x1

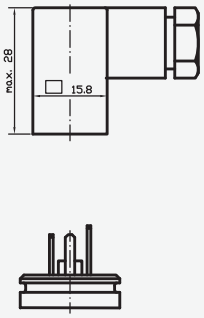


Connectors*

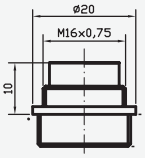
MVS/A
DIN EN 175301-803



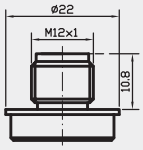
MVS/C
DIN EN 175301-803



male socket
M16x0,5 (S 723)

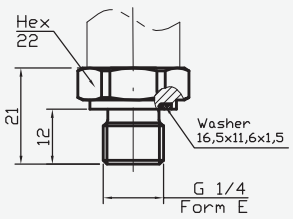


male socket
M12x1 (S 763)

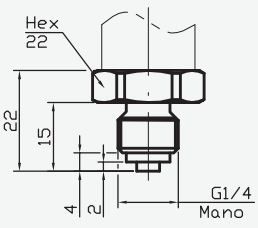


Pressure Connections*

G ¼ A; DIN 3852; Form E



G ¼ B



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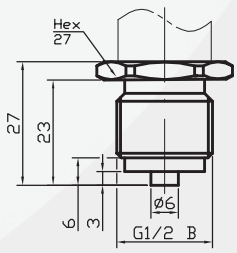
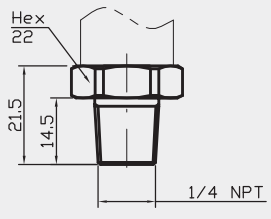


¼ NPT



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