





Relative pressure switch Type 521

The compact type 521 pressure switch is based upon the Huba Control developed thick film technology where the pressure measuring cell is fully welded.

Switching points set in factory are available both N/C and N/O function. Various electrical and pressure connections are available to suit given applications.

Pressure range 0 ... 2.5 – 600 bar

- + Compact, rugged construction
- + Welded without sealing parts
- + Saving time by quick cable mounting by the customer with swift connector
- + Large selection of connections available

	Technical overview				
					02.5 – 600 bar
Technin Upper Surver					
with start Add unit 40, -135 ^C out do our faid 2000 5475 out do our faid 2000 5475 Analyzan provan 4.000 5475 Analyzan provan 4.000 5475 Analyzan provan 5475 5475 Analyzan provan 7.33300 7.33300 Analyzan provan 7.33300 7.33300 Analyzan provan 7.33300 7.33300 Analyzan provan 7.33300 7.33300 Analyzan provan provan 7.33300 7.33300 Analyzan provan provan provan provan provan provan provanp				Liquida, gassa and refrigerents (incl.	amma a i a l
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Space served Space Served Se					
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Sensor Statewise Inclusion with modumity Sensor S			Pressure connection		de thread Schrader 1 4305 / AISI 303 only)
Upped Sentendition/constant Sentendition/constant witching constant High-Side Switch (PMP) Nr.2<2320 mA	laterials in contact with medium				
High-Side Switch (PRP) NC contract v/0 contract wet supply -	lectrical overview				
High-Side Switch (PAP) Max. 200M urrent conjungion					
ower supply			High-Side Switch (PNP)		
urrent orisyingtion <4 mA				High-Side Switch (PNP) max. 200 i	
Stallation voltage Sol Voic yramic response segonse time < 2 ms. 1 ms typ.					
Spantic response - 2.00,1 m 5 (p.) approxement - 100 Hz Approxement - 100 Hz Approxement - 9.00% fs Spatial contention - 9.00% fs					
egona time < 2 ms, 1 ms tpp.					
ead cycle < 100 M2					< 2 ms, 1 ms typ.
aper switching point 8100% fs vstered 2.3 % fs vstered 2.3 % fs it connection Protection standard Protection class witt connect with or without cable 1.5 m II e 67 II onnect or ML2A1 IP 67 II resure connection IP 67 II resure connection III III vstere d G /a with OxMing peak IPM (30+135 % C) III isde thread G /a with OxMing peak IPM (30+135 % C) III Vstere d G /a with OxMing peak IPM (30+135 % C) III Vstere d G /a with OxMing peak IPM (30+135 % C) III Vstere d G /a sealed at forard an manometer (combi) III Vstere d G /a sealed at back and manometer (combi) with Profile seal ring in FPM (30+135 % C) IIII vstere d G /a sealed at back and manometer (combi) with Profile seal ring in FPM (30+135 % C) IIIII vstere d G /a sealed at forar IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					
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yuzz 20 UNF without or with Schnader G ¼ without or with Schnader G ¼ without or with Schnader Schnade	onnector M12x1			IP 67	III
yuribut or with Schnader yuribut or with Schnader	Pressure connection				
Wi-14 NPT ≤ 60 bar M20x1.5 sealed at fort and manometer (combi) //g.*20 UNF sealing cone 45° Wi-18 NPT G ¼ G ¼ sealed at back DN EN ISO 1179-2 with Profile seal ring in FPM (-30 +135 °C) G ¼ EN 10226 G ½ sealed at back and manometer (combi) with Profile seal ring in FPM (-30 +135 °C) G ½ sealed at back and manometer (combi) with Profile seal ring in FPM (-30 +135 °C) G ½ sealed at front		⁷ / ₁₆ - 20 UNF	without or with Schrader		
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leight 90 g ackaging (Please state on order) ngle packaging in cardboard accessories integrated ultiple packaging in cardboard (25 pcs) Accuracy Parameter Unit Switching points ¹⁰ % fs ± 0.5 Resolution % fs 0.1 Thermal characteristic ²¹ max. % fs/10K ± 0.2		ANSI/UL 61010-1 acc. E32511	0		
90 g ackaging (Please state on order) ngle packaging in cardboard accessories integrated ultiple packaging in cardboard (25 pcs) Accuracy Parameter Vinit % fs ± 0.5 Switching points ¹⁾ % fs ± 0.5 Resolution % fs 0.1 Thermal characteristic ²⁾ max. % fs/10K ± 0.2	40				
ackaging (Please state on order) ngle packaging in cardboard accessories integrated ultiple packaging in cardboard (25 pcs) Accuracy Parameter Unit Switching points ¹⁾ % fs ± 0.5 Resolution % fs 0.1 Thermal characteristic ²¹ max. % fs/10K ± 0.2					
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Resolution % fs 0.1 Thermal characteristic ²⁾ max. % fs/10K ± 0.2		% fs	+0.5		· · · ·
Thermal characteristic ²⁾ max. % fs/10K ± 0.2					

²⁾ -15 ... 85 °C

				1	2	3	4	5	6	7	8	9	10	11
Order code select	tion table in bar		521.	Х	Х	Х	Х	Х	X	Х	Х	Χ	Х	Х
	0 2.5 bar			9	1	4								
	0 4 bar			9	1	5								
	0 6 bar			9	1	7								
	0 10 bar			9	3	0								
	0 16 bar			9	3	1								
	0 25 bar			9	3	2								
Pressure range 1)	0 40 bar			9	3	3								
0	0 60 bar			9	4	0								
	0 100 bar			9	4	1								
	0 160 bar			9	4	2								
	0 250 bar			9	4	3								
	0 400 bar			9	5	4								
	0 600 bar			9	5	5								
W	standard						S	0						
Version	for oxygen applications						S	1						
	Contact N/O	High-Side-Switch PNP							1					
Switching contact	Contact N/C	High-Side-Switch PNP							2					
	Swift connector	without cable								0				
Electrical connection	Connector M12x1 ²⁾									3				
	Swift connector with ca	ble 1.5 m								L				
		7/16-20 UNF sealing cone with Schrader						0			0	0	Ν	
	Inside thread	7/16-20 UNF									Κ		1	
		G ¼ with O-Ring seal FPM									1		1	
		1⁄2 -14 NPT (≤ 60 bar)									D		1	
		M20x1.5 sealed at front and manometer (combi)									E		1	
Pressure connection 3)		7/16-20 UNF sealing cone									2		1	
		1/4 - 18 NPT									3		1	
	Outside thread	G ¼ sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM									4		1	
		R ¼ acc. to EN 10226									7		1	
		G ½ sealed at back and manometer with Profile seal ring in FPM									8		1	
		G ½ sealed at front									9		1	
D	without (Inclusive press	ure tip orifice from 100 bar on)										0		
Pressure tip orifice 2)	with											2		
Material	Stainless steel 1.4305 /	AISI 303											Ν	
pressure connection	Stainless steel 1.4404 /	AISI 316L											1	
Switching points		ritching points on order (e.g.: W100/60bar)												W

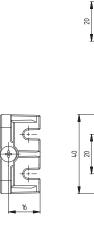
		1										11
tion table in psi	52.	1. X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х
0 30 psi		9	В	4								
0 60 psi		9	В	5								
0 100 psi		9	В	7								
0 200 psi		9	С	1								
0 300 psi		9	С	2								
0 500 psi		9	С	3								
0 750 psi		9	D	0								
0 1000 psi		9	D	1								
0 2000 psi		9	D	2								
0 3000 psi		9	D	3								
0 5000 psi		9	E	4								
0 7500 psi		9	E	5								-
standard					S	0						
for oxygen application	S				S	1						
Contact N/O	High-Side-Switch PNP						1					
Contact N/C	High-Side-Switch PNP						2					
Swift connector	without cable							0				
Connector M12x1 ²⁾								3				_
Swift connector with c	able 1.5 m							L				
	⁷ / ₁₆ -20 UNF sealing cone with Schrader					0			0	0	Ν	
	7/ ₁₆ -20 UNF								K		1	
Inside thread	G ¼ wiht O-Ring seal FPM								1		1	
									D		1	
									E		1	
	7/16-20 UNF sealing cone								2		1	_
	1/4 -18 NPT								3		1	
Outside thread	G ¼ sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM								4		1	
	R ¼ acc. to EN 10226								7		1	
	G ½ sealed at back and manometer with Profile seal ring in FPM								8		1	
	G ½ sealed at front								9		1	
without (Inclusive pres			1							0		
with										2		
	/ AISI 303									_	Ν	
			-						-		-	W
	0 30 psi 0 60 psi 0 200 psi 0 300 psi 0 500 psi 0 750 psi 0 750 psi 0 750 psi 0 700 psi standard for oxygen application Contact N/C Swift connector Connector M12x1 2 Swift connector with c Inside thread Outside thread with Stainless steel 1.4305 / Stainless steel 1.4404 /	0	030 psi 9 0100 psi 9 0200 psi 9 0200 psi 9 0200 psi 9 0500 psi 9 0750 psi 9 02000 psi 9 0750 psi 9 02000 psi 9 03000 psi 9 0	tion table in psi 521. X X 0 30 psi 9 8 0 60 psi 9 8 0 200 psi 9 8 0 200 psi 9 8 0 200 psi 9 0 0 200 psi 9 0 0 500 psi 9 0 0 500 psi 9 0 0 2000 psi 9 0 0 2000 psi 9 0 0 3000 psi 9 0 0 500 psi 9 0 5	tion table in psi 521. X X X X 0	tion table in psi 521. X	tion table in psi 521. X	521. X X X X X X X X X X X X X X X X X X X	tion table in psi 521. X	tion table in psi 521. X	tion table in psi 521. X	tion table in psi 521. X

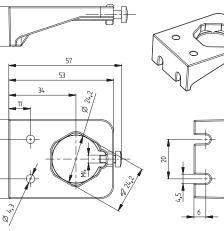
¹⁾ Other pressure ranges on request

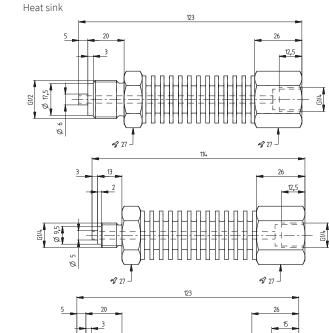
		1	2	3	4	5	6	7	8	9	10	11
ection table in I	tion table in MPa 52	21. X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
00.25 MPa	00.25 MPa	9	G	4								
0 0.4 MPa	0 0.4 MPa	9	G	5						-		
0 0.6 MPa		9	G	7						-	-	
0 1 MPa	0 1MPa	9	Н	0						-		
0 1.6 MPa		9	Н	1						-		
0 2.5 MPa		9	Н	2						-		
0 4 MPa	0 4 MPa	9	Н	3						-		
0 6 MPa	0 6 MPa	9	K	0							-	
0 10 MPa	0 10 MPa	9	K	1								
0 16 MPa		9	K	2						-	-	
0 25 MPa	0 25 MPa	9	K	3						-		
0 40 MPa	0 40 MPa	9	L	4						-		
0 60 MPa	0 60 MPa	9	L	5								
standard	standard				S	0						
	for oxygen applications				S	1						
Contact N/O							1			-	<u> </u>	-
Contact N/C							2			-		
	Swift connector without cable							0			<u> </u>	
Connector M12	Connector M12x1 ²⁾							3				
Swift connector	Swift connector with cable 1.5 m							L			<u> </u>	
	⁷ / ₁₆ -20 UNF sealing cone with Schrader					0			0	0	Ν	
	7/ 20 UNE								K		1	
Inside thread	Inside thread G ¼ wiht O-Ring seal FPM								1		1	
	1⁄2 -14 NPT (≤ 6 MPa)								D		1	
	M20x1.5 sealed at front and manometer (combi)								E		1	
	7/ ₁₆ -20 UNF sealing cone								2		1	
	1/4 - 18 NPT								3		1	
Outside thread	Outside thread G ¼ sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM								4		1	
	R ¼ acc. to EN 10226								7		1	
	G ½ sealed at back and manometer with Profile seal ring in FPM								8		1	
	G ½ sealed at front								9		1	
without (Inclusiv	without (Inclusive pressure tip orifice from 10 MPa on)				-				-	0	<u> </u>	
with										2		
	Stainless steel 1.4305 / AISI 303									-	N	
	Stainless steel 1.4404 / AISI 316L									1	1	
					1	1				+		W
Indicate W and	Indicate W and state switching points on order (e.g.: W10/5MPa)										-	

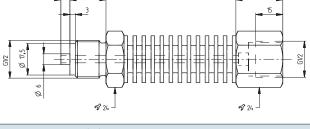
Accessories (supplied loose)	Order number
Swift connector	117312
Corner-wire box for connector M12x1 with cable 2.0 m	114604
Corner-wire box for connector M12x1	106975
Straight-wire box for connector M12x1	114570
Straight-wire box for connector M12x1 with cable 2.0 m	114605
Mounting bracket with screw	118716
Heat sink with outside thread G $^{\prime}_{2}$ sealed at front - inside thread G $^{\prime}_{2}$	105631
Heat sink with outside thread G $\frac{1}{2}$ sealed at front - inside thread G $\frac{1}{4}$	105073
Heat sink with outside thread G $^{\prime\prime}_{4}$ sealed at front - inside thread G $^{\prime\prime}_{4}$	105074
Calibration certificate (at factory set switching points)	104551

Mounting bracket







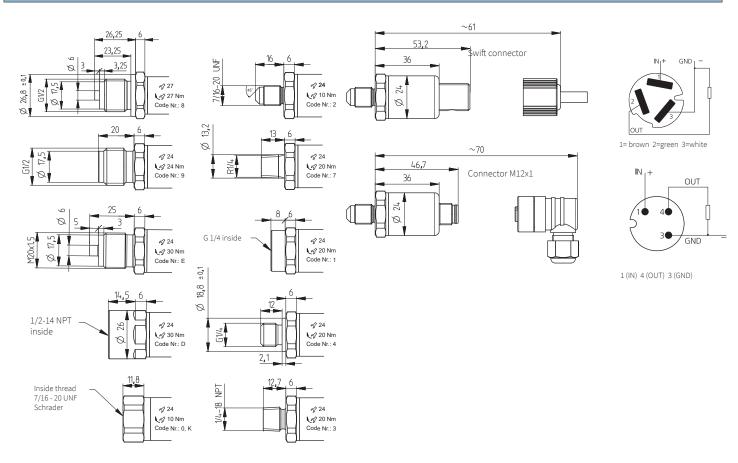


¹⁾ Other pressure ranges on request

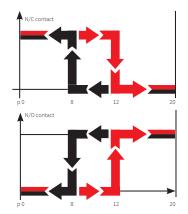
²⁾ Delivery without female connector

³⁾ Other pressure connections on request

Dimensions in mm / Electrical connections



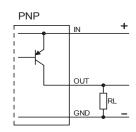
Function



N/C contact: When pressure is applied ($p_0 \rightarrow p_{max}$) the switch will disconnect the applied load as soon as the upper switching point is reached. As the pressure falls ($p_{max} \rightarrow p_0$) the switch will connect the load as soon as the lower switching point is reached.

N/O contact: When pressure is applied ($p_0 \rightarrow p_{max}$) the switch will connect the applied load as soon as the upper switching point is reached. With a fall in pressure ($p_{max} \rightarrow p_0$) the switch will disconnect the load as soon as the lower switching point is reached.

Example: p₆ 20 bar Upper switching point 12 bar Lower switching point 8 bar max. switching load 100 mA







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■カタログに掲載してある製品の色は印刷インキの関係上、実際とは異なる場合があります。
製品のデザイン、仕様等などは、予告なく変更する場合があります。

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