

MICROSWITCHES SELECTION GUIDE

CLASSIC

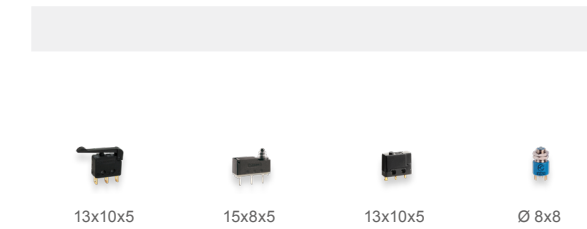
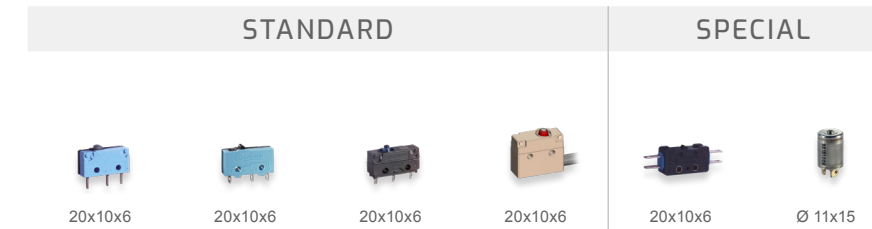
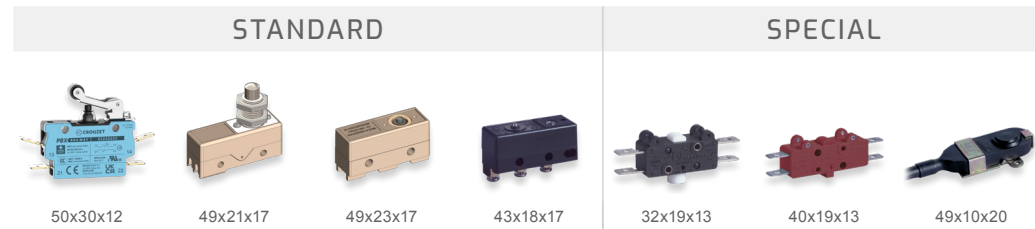
MINIATURE

SUBMINIATURE

SUB-SUBMINIATURE

SNAP-ACTION SWITCHES

Approx. body size (mm)



TYPE	POSITIVE BREAK SEPARATED CIRCUITS	LOW DIFFERENTIAL TRAVEL	SEALED DOUBLE BREAK LOW DT	ROBUST - LOW DIFFERENTIAL TRAVEL	DOUBLE BREAK	HIGH DC RATING	SEALED FLAT RUBBER PACK
	SERIES	PBX-PBXR 8324/8325	MP040 MP50	MP90 MPT10 MP21/22	83118 83120	83106 83109 83111/112	83154

TYPE	POSITIVE BREAK SEPARATED CIRCUITS	LOW DIFFERENTIAL TRAVEL	SEALED DOUBLE BREAK LOW DT	ROBUST - LOW DIFFERENTIAL TRAVEL	DOUBLE BREAK	HIGH DC RATING	SEALED FLAT RUBBER PACK
	SERIES	PBX-PBXR 8324/8325	MP040 MP50	MP90 MPT10 MP21/22	83118 83120	83106 83109 83111/112	83154

TYPE	STANDARD	ESSENTIAL	SEALED	SEALED - LOW DT	ESSENTIAL SEALED	HEAVY DUTY	POSITIVE BREAK	HIGH DC RATING	DOUBLE BREAK SEALED	HIGH-ACCURACY ROTARY LEVER
	SERIES	V3 83161	V3D 8326	V3S 83169	MP310 MP320	V3DS 8329	83160	831607 832607	831606 SP3697	83139

TYPE	STANDARD	ESSENTIAL	SEALED	SEALED LOW DT	DOUBLE BREAK	HERMETIC INOX HOUSING
	SERIES	V4 83170	V4D 8327	V4S 8318	MP400 MP500	83132 83133 83134

TYPE	STANDARD	SEALED	HIGH ACCURACY	CYLINDRIC ADJUSTABLE
	SERIES	V5D 83194	V5S 8320	83141

ELECTRICAL	Max. ratings	@ 250 V ~ @ 400 V ~ @ 24V ~ @ 250 V ~	10 A ** 10 A 0.8 A	15 A 15 A 10 A 0.3 A	15 A 10 A 15 A 0.3 A	10 A 10 A 10 A 0.3 A	16 A 16 A 16 A 0.6 A	16 A 16 A 5 A	10 A 10 A 0.3 A
	Dual-current version Low current version		1 mA → 10 A				10 mA → 5 A		

ELECTRICAL	Circuit diagram Contact configuration (for 1 pole changeover/SPDT)							
	SPST-NC / SPST-NO versions			✓				✓

ELECTRICAL	Max. ratings	1 mA → 5 A	1 → 20 mA	1 mA → 5 A		1 mA → 3 A	**	10 mA → 6 A		1 mA → 5 A	1 → 100 mA
	Circuit diagram Contact configuration (for 1 pole changeover/SPDT)										

ELECTRICAL	Max. ratings	1 mA → 5 A	1 → 20 mA	1 mA → 6 A		1 mA → 5 A	1 mA → 1 A
	Circuit diagram Contact configuration (for 1 pole changeover/SPDT)						

ELECTRICAL	Max. ratings	1 mA → 5 A	1 mA → 4 A	1 mA → 1 A	1 mA → 5 A
	Circuit diagram Contact configuration (for 1 pole changeover/SPDT)				

ENVIRONMENT	Multipole version	**			2 → 6 poles (8332)	2 → 6 poles (8332)	
	Bistable version (maintained action)	**	✓	**	Push/Pull	Push/Pull	
ENVIRONMENT <td>Positive opening operation</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Positive opening operation						
	Electrical disconnection Insulation voltage	Full 400 V	μ 250 V	μ 250 V ; 400 V	μ 250 V	μ 250 V	μ 250 V

ENVIRONMENT	Protection against electric shock (without additional protection)	Class I	Class I	Class I Class II	Class I	Class I	Class I Class II
	Degree of protection	IP40 IP65 IP67	IP40	IP67 IP68 (20 m)	IP40	IP40	IP66 IP67 IP69
ENVIRONMENT <td>Operating temperature</td> <td>-50 °C +85 °C</td> <td>-40 °C +130 °C</td> <td>-40 °C +130 °C</td> <td>-40 °C +125 °C</td> <td>-40 °C +125 °C</td> <td>-40 °C +85 °C</td>	Operating temperature	-50 °C +85 °C	-40 °C +130 °C	-40 °C +130 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +85 °C
	Explosive atmospheres						
ENVIRONMENT <td>Irradiated environment</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Irradiated environment						
	Max. Operating Force	4.5 N ; 6.5 N	6 N	6 N ; 12.5 N	0.35 → 2.7 N	0.45 → 7.5 N	4 N

ENVIRONMENT	Max. Operating Force	0.15 → 5 N	0.25 → 4 N	4.5 N	3.5 N	0.5 → 4.5 N	1 → 5 N	4 N	5 N	3 N ; 4.5 N	1.2 → 2 mN.m
	Min. Overtravel	1.2 mm	1.1 mm	1 mm	0.2 mm	1 mm	1.3 mm	1.3 mm	1 mm	0.25 mm	12°
ENVIRONMENT <td>Max. Differential Travel</td> <td>0.35 mm ; 0.8 mm</td> <td>0.4 mm</td> <td>0.07 mm ; 0.35 mm</td> <td>0.02 mm** ; 0.05 mm</td> <td>0.5 mm</td> <td>0.3 mm ; 0.7 mm</td> <td>0.3 mm</td> <td>0.7 mm</td> <td>0.45 mm</td> <td>14°</td>	Max. Differential Travel	0.35 mm ; 0.8 mm	0.4 mm	0.07 mm ; 0.35 mm	0.02 mm** ; 0.05 mm	0.5 mm	0.3 mm ; 0.7 mm	0.3 mm	0.7 mm	0.45 mm	14°
	Mechanical life (cycles)	50 M	1 M	5 M	10 M	1 M	10 M	10 M	10 M	10 M	10 M

ENVIRONMENT	Max. Operating Force	0.6 → 2.2 N	1.5 N	2.5 N	1.2 N ; 2.5 N	1.6 N ; 2.6 N	5 → 47 N
	Min. Overtravel	0.5 mm	0.5 mm	0.6 mm	0.6 mm	0.27 mm	0.08 mm
ENVIRONMENT <td>Max. Differential Travel</td> <td>0.08 mm 0.15 mm</td> <td>0.15 mm</td> <td>0.10 mm ; 0.15 mm</td> <td>0.02 mm** ; 0.05 mm</td> <td>0.45 mm</td> <td>0.05 mm</td>	Max. Differential Travel	0.08 mm 0.15 mm	0.15 mm	0.10 mm ; 0.15 mm	0.02 mm** ; 0.05 mm	0.45 mm	0.05 mm
	Mechanical life (cycles)	30 M	0.1 M	2 M	2 M	10 M	0.2 M

ENVIRONMENT	Max. Operating Force	1.4 N	1.5 N	2 N	1.7 N
	Min. Overtravel	0.25 mm	2 mm	0.1 mm	0.15 ; 1.5 mm
ENVIRONMENT <td>Max. Differential Travel</td> <td>0.13 mm</td> <td>0.06 mm ; 0.19 mm</td> <td>0.06 mm</td> <td>0.12 mm ; 0.19 mm</td>	Max. Differential Travel	0.13 mm	0.06 mm ; 0.19 mm	0.06 mm	0.12 mm ; 0.19 mm
	Mechanical life (cycles)	10 M	1 M	2 M	2 M

MECHANICAL	Min. actuating speed	0.1 mm/s		0.01 mm/s	0.01 mm/s	0.01 mm/s	0.03 mm/s
	Operating device	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger
MECHANICAL <td>Lateral actuation on plunger</td> <td></td> <td></td> <td></td> <td></td> <td>Ball (opt)</td> <td>Ball (opt)</td>	Lateral actuation on plunger					Ball (opt)	Ball (opt)
	Auxiliary levers (flat, bended, roller...)	Hinged Flexible Floater Adjustable	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓

MECHANICAL	Telescopic plunger (option)	✓	✓	✓	✓	✓	✓	
	Fixing means	Plain holes Tapped holes Pins Threaded barrel Others	Ø 4.1 M3	Ø 3.6	Ø 4.5	Ø 4.2	Ø 2.6 M3	Ø 2.6 Ø 3.2
MECHANICAL <td>Connections</td> <td>Solder Quick-connect Printed board Screw Wires Cable</td> <td>✓ ✓ ✓ ✓ ** **</td> <td>✓ ✓ ✓ ✓ ✓ ✓</td> <td>✓ ✓ ✓ ✓ ✓ ✓</td> <td>✓ ✓ ✓ ✓ ✓ ✓</td> <td>✓ ✓ ✓ ✓ ✓ ✓</td> <td>** ✓ ✓ ✓ ✓ ✓</td>	Connections	Solder Quick-connect Printed board Screw Wires Cable	✓ ✓ ✓ ✓ ** **	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓	** ✓ ✓ ✓ ✓ ✓
	Approvals	ENEC/CE/IECEx UL CCC EAC	CE UL CCC EAC	CE UL CCC EAC	CE UL CCC EAC	CE UL CCC EAC	CE UL CCC EAC	CE UL CCC EAC

MECHANICAL	Max. Operating Force	0.15 → 5 N	0.25 → 4 N	4.5 N	3.5 N	0.5 → 4.5 N	1 → 5 N	4 N	5 N	3 N ; 4.5 N	1.2 → 2 mN.m
	Min. Overtravel	1.2 mm	1.1 mm	1 mm	0.2 mm	1 mm	1.3 mm	1.3 mm	1 mm	0.25 mm	12°
MECHANICAL <td>Max. Differential Travel</td> <td>0.35 mm ; 0.8 mm</td> <td>0.4 mm</td> <td>0.07 mm ; 0.35 mm</td> <td>0.02 mm** ; 0.05 mm</td> <td>0.5 mm</td> <td>0.3 mm ; 0.7 mm</td> <td>0.3 mm</td> <td>0.7 mm</td> <td>0.45 mm</td> <td>14°</td>	Max. Differential Travel	0.35 mm ; 0.8 mm	0.4 mm	0.07 mm ; 0.35 mm	0.02 mm** ; 0.05 mm	0.5 mm	0.3 mm ; 0.7 mm	0.3 mm	0.7 mm	0.45 mm	14°
	Mechanical life (cycles)	50 M	1 M	5 M	10 M	1 M	10 M	10 M	10 M	10 M	10 M

MECHANICAL	Max. Operating Force	0.6 → 2.2 N	1.5 N	2.5 N	1.2 N ; 2.5 N	1.6 N ; 2.6 N	5 → 47 N
	Min. Overtravel	0.5 mm	0.5 mm	0.6 mm	0.6 mm	0.27 mm	0.08 mm
MECHANICAL <td>Max. Differential Travel</td> <td>0.08 mm 0.15 mm</td> <td>0.15 mm</td> <td>0.10 mm ; 0.15 mm</td> <td>0.02 mm** ; 0.05 mm</td> <td>0.45 mm</td> <td>0.05 mm</td>	Max. Differential Travel	0.08 mm 0.15 mm	0.15 mm	0.10 mm ; 0.15 mm	0.02 mm** ; 0.05 mm	0.45 mm	0.05 mm
	Mechanical life (cycles)	30 M	0.1 M	2 M	2 M	10 M	0.2 M

MECHANICAL	Max. Operating Force	1.4 N	1.5 N	2 N	1.7 N
	Min. Overtravel	0.25 mm	2 mm	0.1 mm	0.15 ; 1.5 mm
MECHANICAL <td>Max. Differential Travel</td> <td>0.13 mm</td> <td>0.06 mm ; 0.19 mm</td> <td>0.06 mm</td> <td>0.12 mm ; 0.19 mm</td>	Max. Differential Travel	0.13 mm	0.06 mm ; 0.19 mm	0.06 mm	0.12 mm ; 0.19 mm
	Mechanical life (cycles)	10 M	1 M	2 M	2 M

* Pending ** Consult us
The features presented in this selection guide represent the extent of performance of each Microswitch Series. Not all combinations of characteristics are feasible at an individual product. Please refer to relevant product sheet or consult our customer service. For more information see also the «Basic technical concepts».
Note: data contained in product sheets dated 2016 and before may differ from the features shown in this selection guide. Update is in progress. Please contact us for confirmation.

Warning:
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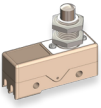



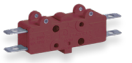






































MICROSWITCHES SELECTION GUIDE

CLASSIC

SNAP-ACTION SWITCHES



































































Approx. body size (mm)

	STANDARD				SPECIAL		
							
	50x30x12	49x21x17	49x23x17	43x18x17	32x19x13	40x19x13	49x10x20

	TYPE	SERIES	POSITIVE BREAK SEPARATED CIRCUITS	LOW DIFFERENTIAL TRAVEL	SEALED DOUBLE BREAK LOW DT	ROBUST - LOW DIFFERENTIAL TRAVEL	DOUBLE BREAK	HIGH DC RATING	SEALED FLAT RUBBER PACK	
			PBX-PBXR 8324/8325	MP040 MP50	MP90 MP110 MP21/22	83118 83120	83106 83109 83111/112	83154	83123	
ELECTRICAL	Max. ratings	@ 250 V ~ @400 V ~ @ 24V ~ @ 250 V ~	10 A ** 10 A 0.8 A	15 A 15 A 0.3 A	15 A 10 A 15 A	10 A 10 A 0.3 A	16 A 16 A 0.6 A	16 A 16 A 5 A	10 A 10 A 0.3 A	
	Dual-current version Low current version		1 mA → 10 A				10 mA → 5 A			
	Circuit diagram Contact configuration (for 1 pole changeover/SPDT)		 Form Zb (separated contacts)	 Form C	 Form Za	 Form C	 Form Za	 Form Za	 Form C	
	SPST-NC / SPST-NO versions				✓				✓	
	Multipole version		**				2 → 6 poles (8332)	2 → 6 poles (8332)		
	Bistable version (maintained action)		**	✓	**		Push/Pull	Push/Pull		
	Positive opening operation									
	Electrical disconnection		Full	μ	μ	μ	μ	μ	μ	
	Insulation voltage	Ui	400 V	250 V	250 V ; 400 V	250 V	250 V	250 V	250 V	
	Protection against electric shock (without additional protection)		Class I	Class I	Class I Class II 	Class I	Class I	Class I	Class I Class II** 	
ENVIRONMENT	Degree of protection		IP40 IP65 IP67	IP40	IP67 IP68 (20 m)	IP40	IP40	IP40	IP66 IP67 IP69	
	Operating temperature		-50 °C +85 °C	-40 °C +130 °C	-40 °C +130 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +85 °C	
	Explosive atmospheres									
	Irradiated environment									
MECHANICAL	Max. Operating Force		4.5 N ; 6.5 N	6 N	6 N ; 12.5 N	0.35 → 2.7 N	0.45 → 7.5 N	4 N	7.5 N	
	Min. Overtravel		3 mm	0.25 mm	0.25 mm	0.2 → 0.8 mm	0.7 mm	0.7 mm	0.25 mm	
	Max. Differential Travel		1.3 mm	0.05 mm	0.05 mm ; 0.10 mm	0.09 mm ; 0.7 mm	0.7 mm	0.9 mm	0.2 mm	
	Mechanical life (cycles)		10 M	50 M		5 M	10 M	10 M	2 M	
	Min. actuating speed		0.1 mm/s			0.01 mm/s	0.01 mm/s	0.01 mm/s	0.03 mm/s	
	Operating device		Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	
	Lateral actuation on plunger						Ball (opt)	Ball (opt)		
	Auxiliary levers (flat, bended, roller...)	Hinged Flexible Floater Adjustable	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	
	Telescopic plunger (option)			✓	✓	✓	✓	See 83513/522	See 83513/522	See 8373
	Fixing means	Plain holes		Ø 4.1	Ø 3.6	Ø 4.5	Ø 4.2	Ø 2.6	Ø 2.6	Ø 3.2
		Tapped holes		M3				M3		
		Pins								
		Threaded barrel			M12 x 1	M12 x 1	M12 x 0.75	(83537**)	(83537**)	See 8373
	Connections	Others						Snap-in		
		Solder		✓	✓	✓	✓	✓	✓	**
Quick-connect			✓		✓	✓	✓	✓		
Printed board			✓		✓	✓	✓	✓		
Screw			✓	✓	✓	✓	✓	✓		
Wires Cable		** **			✓ ✓	✓ ✓			✓	
Approvals	ENEC/CE/IECEX									
	UL									
	CCC									
	EAC									

MICROSWITCHES SELECTION GUIDE

MINIATURE

STANDARD					SPECIAL				
									
28x16x10	28x16x10	31x23x10	31x25x10	33x16x10	28x16x10	28x16x10	29x16x10	24x31x9	30x18x12
STANDARD	ESSENTIAL	SEALED	SEALED - LOW DT	ESSENTIAL SEALED	HEAVY DUTY	POSITIVE BREAK	HIGH DC RATING	DOUBLE BREAK SEALED	HIGH-ACCURACY ROTARY LEVER
V3 83161	V3D 8326	V3S 83169	MP310 MP320	V3DS 8329	83160	831607 832607	831606 SP3697	83139	83137
16 A 10 A 16 A 0.8 A	25 A 16 A 0.2 A	8 A 8 A 0.3 A	6 A 6 A 0.5 A	10 A 10 A 0.5 A	16 A 10 A 16 A 0.8 A	6 A 6 A 0.5 A	16 A 16 A 5 A	6 A 6 A 0.5 A	6 A 6 A 0.4 A
1 mA → 5 A	1 → 20 mA	1 mA → 5 A		1 mA → 3 A	**	10 mA → 6 A		1 mA → 5 A	1 → 100 mA
									
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
								2 poles	
									
μ or Full 400 V	μ 250 V	μ 250 V	μ 250 V	μ 250 V	μ or Full 400 V	μ 250 V	Full 250 V	μ 250 V	μ 250 V
Class I	Class I	Class I Class II** 	Class I Class II 	Class I	Class I	Class I	Class I	Class I Class II 	Class I
IP40	IP40	IP67 IP69	IP67	IP67	IP40	IP40	IP40	IP66 IP67	IP40
-60 °C +150 °C	-50 °C +200 °C	-40 °C +105 °C	-40 °C +150 °C	-40 °C +85 °C	-40 °C +150 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +105 °C	-20 °C +125 °C
								II2G  IIICGb	
0.15 → 5 N 1.2 mm	0.25 → 4 N 1.1 mm	4.5 N 1 mm	3.5 N 0.2 mm	0.5 → 4.5N 1 mm	1 → 5 N 1.3 mm	4 N 1.3 mm	5 N 1 mm	3 N ; 4.5 N 0.25 mm	1.2 → 2 mN.m 12°
0.35 mm ; 0.8 mm	0.4 mm	0.07 mm ; 0.35 mm	0.02 mm** ; 0.05 mm	0.5 mm	0.3 mm ; 0.7 mm	0.3 mm	0.7 mm	0.45 mm	14°
50 M	1 M	5 M	10 M	1 M	10 M	10 M	1 M	10 M	10 M
0.001 mm/s	0.1 → 3mm/s	0.001 mm/s		0.1 → 3mm/s	0.1 mm/s	0.1 mm/s	0.1 mm/s	0.01 mm/s	1°/s
Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Inox wire
✓	✓	**		**	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓	
**		**						**	
✓	**	(SP4978/4988)	✓		✓		✓	(SP4257)	
Ø 3.1	Ø 3.1	Ø 3.1	Ø 3.1 ; Ø 3.5	Ø 3.1	Ø 3.2	Ø 3.2	Ø 3.2	Ø 2.2 ; Ø 3.1	Ø 3.2
M10 ; M12	**	See 83581	M10 x 1		M10 ; M12	M10 x 0.75	M10 ; M12	M10 x 0.75	
✓	✓			✓	✓	✓	✓		✓
✓	✓			✓	✓	✓	✓		✓
✓	✓			✓	✓	✓	✓		✓
✓	✓			✓	✓	✓	✓		✓
									
							**		
									
									



Options of characteristics are feasible at an individual product. («options»).

Please contact us for confirmation.






















MICROSWITCHES SELECTION GUIDE

07/2023

SUBMINIATURE

STANDARD				SPECIAL	
					
20x10x6	20x10x6	20x10x6	20x10x6	20x10x6	Ø 11x15
STANDARD	ESSENTIAL	SEALED	SEALED LOW DT	DOUBLE BREAK	HERMETIC INOX HOUSING
V4 83170	V4D 8327	V4S 8318	MP400 MP500	83132 83133 83134	83151 83560
12 A	12 A	10 A	5 A	6 A	5 A
10 A	10 A	10 A	5 A	6 A	7 A
0.3 A	0.2 A	0.3 A	0.3 A	0.5 A	0.3 A
1 mA → 5 A	1 → 20 mA	1 mA → 6 A		1 mA → 5 A	1 mA → 1 A
					
Form C	Form C	Form C	Form C	Form Za	Form C
✓	✓	✓	✓	✓	✓
				2 ; 3 poles (8331**)	2 poles
				Push/Pull	
μ	μ	μ	μ	μ	μ
250 V	250 V	250 V	250 V	250 V	250 V
Class I	Class I	Class I Class II**	Class I Class II**	Class I	Class I
IP40	IP40	IP67 IP69	IP67	IP40	Hermetic Qk test 10-3 Pa.cm ³ /s
-40 °C +150 °C	-25 °C +150 °C	-40 °C +125 °C	-40 °C +105 °C	-40 °C +150 °C	-55 °C +250 °C
					
0.6 → 2.2 N	1.5 N	2.5 N	1.2 N ; 2.5 N	1.6 N ; 2.6 N	5 → 47 N
0.5 mm	0.5 mm	0.6 mm	0.6 mm	0.27 mm	0.08 mm
0.08 mm 0.15 mm	0.15 mm	0.10 mm ; 0.15 mm	0.02 mm** ; 0.05 mm	0.45 mm	0.05 mm
30 M	0.1 M	2 M	2 M	10 M	0.2 M
0.001 mm/s	0.1 mm/s	0.01 mm/s		0.01 mm/s	0.01 mm/s
Plunger	Plunger	Plunger	Plunger	Plunger	Plunger
✓	✓	✓	✓	Ball (opt)	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	See 8354	See 8377
Ø 2.2	Ø 2.2 ; 2.35	Ø 2.2	Ø 2.2	Ø 2.1	Ø 3.2
Ø 2.6 M6 x 0.75	Ø 2.6 M6 x 0.75	Ø 2.6		See 8354	See 8377
✓	✓	Snap-in**	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
**		✓	✓	✓	✓
					
					
					

SUB-SUBMINIATURE

SUB-SUBMINIATURE			
			
13x10x5	15x8x5	13x10x5	Ø 8x8
STANDARD	SEALED	HIGH ACCURACY	CYLINDRIC ADJUSTABLE
V5D 83194	V5S 8320	83141	83228 83229
5 A	4 A	5 A	5 A
5 A	4 A	5 A	5 A
0.15 A	0.2 A	0.15 A	0.2 A
1 mA → 5 A	1 mA → 4 A	1 mA → 1 A	1 mA → 5 A
			
Form C	Form C	Form C	Form C
✓	✓		
μ	μ	μ	μ
250 V	250 V	250 V	250 V
Class I	Class I	Class I	Class I
IP40	IP67 IP69	IP40	IP40
-40 °C +110 °C	-40 °C +90 °C	-55 °C +150 °C	-55 °C +140 °C
			
1.4 N	1.5 N	2 N	1.7 N
0.25 mm	2 mm	0.1 mm	0.15 ; 1.5 mm
0.13 mm	0.06 mm ; 0.10 mm	0.06 mm	0.12 mm ; 0.19 mm
10 M	1 M	2 M	2 M
0.1 mm/s	0.001 mm/s	0.01 mm/s	0.01 mm/s
Plunger	Plunger	Plunger	Plunger
✓	✓	✓	Ball (opt)
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
Ø 2.25	Ø 3 (opt)	Ø 2.1	
	Ø 2.2		M5 x 0.5; M8 x 0.7 Flush mount
✓	✓	✓	✓
**	✓	✓	✓
**	✓	✓	✓
			
			
			

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