

MICROSWITCHES - SEALED, POSITIVE BREAK

PBX - 8324

- › Double-break snap-action mechanism with electrically separated circuits (form Zb)
- › Positive opening action according to IEC 60947-5-1 Annex K
- › Long overtravel, also after the positive opening position
- › Protection of mechanism: IP67/IP65, or IP40 with sealed plunger
- › Operating temperature -50 °C to +85 °C
- › Ratings from 1 mA 4 V_{DC} to 6 A 250 V_{AC} - Rating codes: A300, Q150
- › Very long mechanical life
- › Choice of connections - Mounting plates and roller lever (pre-assembled or retrofittable)
- › cURus and CCC approved - Meet applicable railway standards



Main specifications

		Standard 83240	High force 83242	Dual-current 83244	Dual-current High force 83245
Degree of protection	Connections				
IP40	W3 (QC 6.3x0.8)	83240000	83242000	83244000	83245000
IP40	W3/90B (QC 6.3x0.8, folded)	83240010	83242010	●	●
IP40	W5 (screw + clamp)	83240020	83242020	83244020	83245020
IP40	W5/IP20 (screw + clamp, protected)	83240030	83242030	83244030	83245030
IP40	W1 (screw + washer)	●	●	●	●
IP67	W3 (QC 6.3x0.8)	83240200	83242200	83244200	83245200
IP67	W3/90B (QC 6.3x0.8, folded)	83240210	●	83244210	●
IP67	W5 (screw + clamp)	83240220	83242220	83244220	83245220
IP67	W5/IP20 (screw + clamp, protected)	83240230	83242230	83244230	83245230
IP 67	W1 (screw + washer)	●	●	●	●
Electrical characteristics					
Positive opening action		⤴	⤴	⤴	⤴
Rating nominal / 250 V _{AC} (A)		6	6	6*	6*
Rating nominal / 250 V _{DC} (A)		0.6	0.6	0.6*	0.6*
Rating thermal (A)		10	10	10	10
Mechanical characteristics					
Maximum operating force (N)		4.5	6.5	4.5	6.5
Minimum release force (N)		0.6	2.5	0.6	2.5
Minimum positive opening force (N)		28	28	28	28
Maximum rest position (mm)		8.9	8.9	8.9	8.9
Operating position (mm)		6.6 ±0.25	6.6 ±0.25	6.6 ±0.25	6.6 ±0.25
Positive opening position (mm)		4.4	4.4	4.4	4.4
Maximum total travel position (mm)		3.4	3.4	3.4	3.4
Differential travel (mm)		1 ±0.3	1 ±0.3	1 ±0.3	1 ±0.3
Operating temperature (°C)		-50 → +85	-50 → +85	-50 → +85	-50 → +85
Mechanical life - IP40 versions (operations)		10 ⁷	10 ⁷	10 ⁷	10 ⁷
Mechanical life - IP67 versions (operations)		4x10 ⁶	4 x 10 ⁶	4 x 10 ⁶	4 x 10 ⁶
Contact gap (mm)		2 x 1	2 x 1	2 x 1	2 x 1
Weight (g)		22	22	22	22

Additional specifications

- Case: PC GF (UL 94-V2 / GWFI 960 °C / GWIT 775 °C)
- Button: PBT GF (UL 94-V0 / GWFI 960 °C)
- Membrane: silicone rubber
- Contacts: silver alloy, micro-profile
gold alloy on silver alloy, micro-profile (dual-current)
- Terminals: brass (silver-plated brass : on request)
- Screws: stainless steel
- Levers: stainless steel, polyamide roller
- Degree of protection: IP65/IP67 or IP40 (mechanism)
- Recommended min actuating speed: 0.1 mm/s
- Rated insulation voltage U_i: 400 V
- Impulse withstand voltage U_{imp}: 4 kV
- Pollution degree: 3
- Protection against electric shock: Button and actuators of IP67 versions have reinforced insulation
- Dimensional conformity: DIN 41636 F
- Fire/smoke resistance: EN 45545
- Certification marks: (A300, Q150) /

Product adaptations

- › IP67 wire lead or cable outputs, EN 50306 halogen-free versions
- › Special connections: W3 QC tabs with specific folding angles, double QC tabs, W5 without screws, ...
- › Special levers: special shapes and lengths
- › AgPd contacts for infrequent switching in corrosive atmospheres up to 1A (83241/83243)
- › Maintained action variant (bistable reset switch), with plunger or lever
- › Two-pole DPDT assemblies with common lever
- › IP40 protective cover/housing on connections



Standard product

Product made to order

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