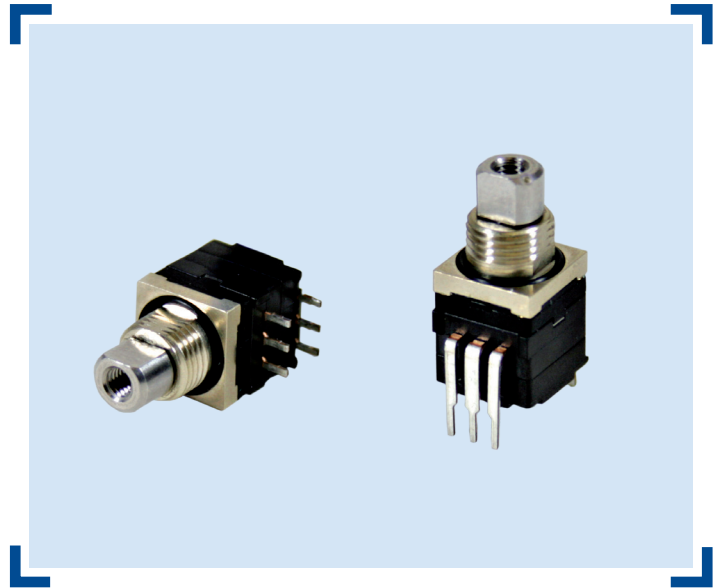
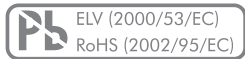


MIL Rugged Coded Switch Type M07

- 2 to 16 positions gray, hex or BCD coding
- Ruggedised stainless steel 6 mm tapped shaft
- 4.5 Ncm switching torque
- Gold plated contacts, nickel silver bushing
- MIL-STD-810F (salt/fog and humidity)
- MIL-STD-202G (shock and vibration)
- Optional IP68 front panel sealing (5 bar, 50 meters submersion)
- Operating temperature range: -40 to +85°C
- Various options and customization



Standard Product Variety

- Vertical or horizontal mounting
- BCD, hex or gray coding
- Number of positions
- 3.2 or 4.5 Ncm switching torque
- With end stop or endless rotating
- IP60 or IP68 front panel sealing

Possible Customization

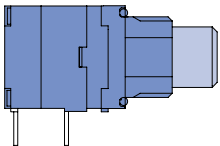
- Shaft dimensions and shape
- Bushing, mounting
- Switching torque
- High/low torque function "on/off"
- Others

Typical Applications

- Frequency and channel selection for two way radios
- Target aiming devices
- Aircraft transponders
- Portable Medical equipment
- Industrial automation
- Vision and imaging products
- Mobile PCs

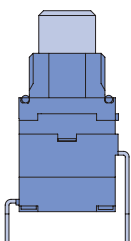
Preference Types Selection Chart¹

Horizontal



IP Sealing	Coding	Switching Mode	Positions	Torque	With End Stop	Endless Rotating
IP60	Gray	Shorting	16 (22.5°)	3.2 Ncm	M07-1173-200000	M07-1073-200000
			10 (36°)	4.5 Ncm	M07-1173H200000	M07-1073H200000
	BCD	Shorting	10 (36°)	2.2 Ncm	M07-1133-200000	M07-1033-200000
IP68	Gray	Shorting	16 (22.5°)	4.0 Ncm	M07-1133H200000	M07-1033H200000
			16 (22.5°)	3.2 Ncm	M07-1173-300000	M07-1073-300000
	BCD	Shorting	10 (36°)	4.5 Ncm	M07-1173H300000	M07-1073H300000
				2.2 Ncm	M07-1133-300000	M07-1033-300000
				4.0 Ncm	M07-1133H300000	M07-1033H300000

Vertical



IP Sealing	Coding	Switching Mode	Positions	Torque	With End Stop	Endless Rotating
IP60	Gray	Shorting	16 (22.5°)	3.2 Ncm	M07-3173-200000	M07-3073-200000
			10 (36°)	4.5 Ncm	M07-3173H200000	M07-3073H200000
	BCD	Shorting	10 (36°)	2.2 Ncm	M07-3133-200000	M07-3033-200000
IP68	Gray	Shorting	16 (22.5°)	4.0 Ncm	M07-3133H200000	M07-3033H200000
			16 (22.5°)	3.2 Ncm	M07-3173-300000	M07-3073-300000
	BCD	Shorting	10 (36°)	4.5 Ncm	M07-3173H300000	M07-3073H300000
				2.2 Ncm	M07-3133-300000	M07-3033-300000
				4.0 Ncm	M07-3133H300000	M07-3033H300000

¹ For other types/options, see type key.

MIL Rugged Coded Switch Type M07

Specifications

Mechanical Data

Resolution:	BCD: 10 positions max. (36° indexing) Other codings: 16 positions max. (22.5° indexing) End stops are factory settable from 2 to 16 (10) positions
Switching torque (new condition):	Gray & hex: 3.2 or 4.5 Ncm (+/- 25%) BCD: 2.2 or 4.0 Ncm (+/- 25%)
Rotational life:	10,000 cycles min.
End stop strength:	BCD: 45 Ncm; other codings: 35 Ncm
Fastening torque of nut (front panel mounting):	100 Ncm max.

Electrical Data

Coding/output:	BCD, BCD complementary, hex, hex complementary or gray
Contact resistance (new condition):	50 mOhms max.
Dielectric withstanding voltage:	500 VDC during 60 seconds (pins to pins, pins to housing)

Material Data

Shaft:	Stainless steel (1.4305 grade)
Housing:	Nickel silver, fiber enforced high performance plastic
Nut:	Brass, nickel plated
Contact system:	CuBe alloy, AuCo plated (hard gold)
Soldering leads:	CuBe alloy, tin plated
O-rings:	NBR (Nitril), 70 shore

Environmental Data

Operating/storage temperature range:	-40 to +85°C max.
IP sealing:	IP 68 (50 meters submersion over 4 hours)
Vibration:	10 Grms max. @ 10 to 2000 Hz

Packaging Sizes

Tray:	50 or 200 pcs.
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Soldering Conditions

Hand soldering:	340°C max. during 2 s max.
Wave soldering:	280°C max. peak temperature during 5 s max.

Codings

BCD

	8	4	2	1
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				

On
Off

BCD Complementary

	8	4	2	1
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				

Hex

	8	4	2	1
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

Hex Complementary

	8	4	2	1
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

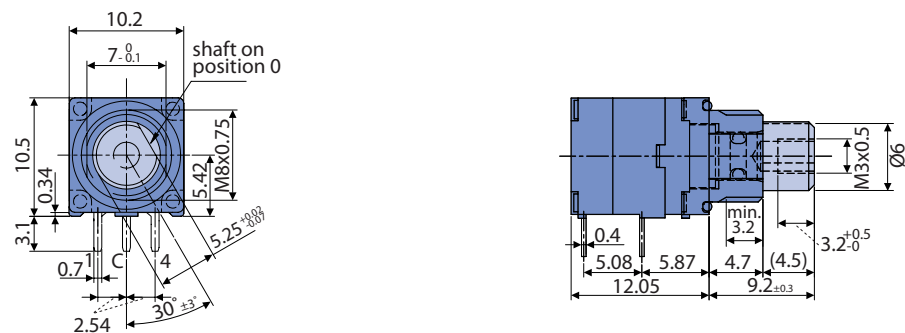
Gray

	8	4	2	1
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

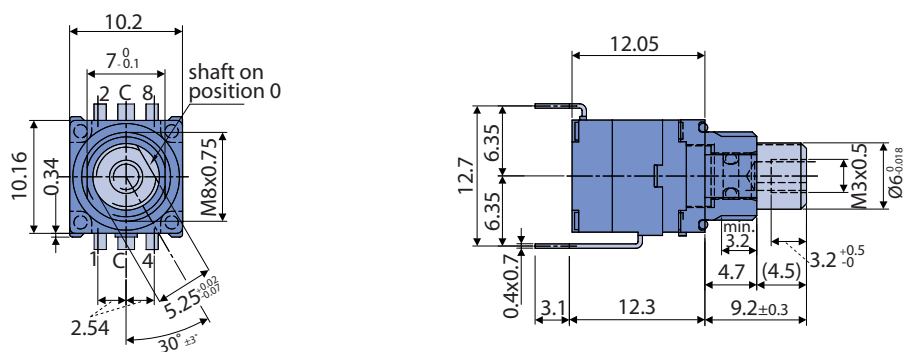
MIL Rugged Coded Switch Type M07

Drawings

07 - Horizontal

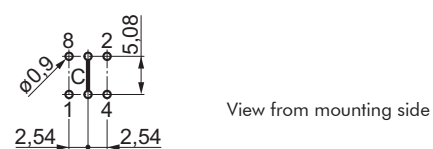


07 - Vertical

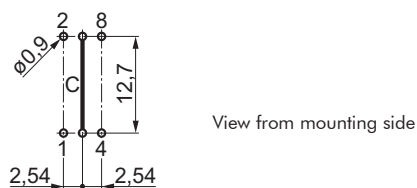


Drilling Diagrams

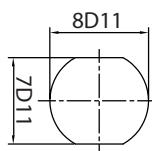
Horizontal



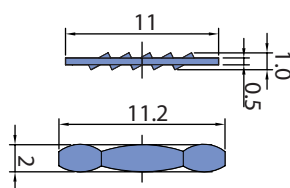
Vertical



Front Panel Cut Out



Nut and Washer (both supplied)



Wrench size: 10 mm

Type Key

