

The rotary switch RTB is designed as either a code switch or as a multiposition switch for PCB mounting.

There are 2 types: RTBH horizontal mounting RTBV vertical mounting

The tables on the next page show the contact arrangements for standard codes.

- Totally sealed: immersion test acc. to MIL R22.097 F and NFC 20631/QF
- Detent angles 15°, 22.5°, 30° and 36° corresponding to the number of positions: 24, 16, 12 or 10
- Favorable price/performance ratio
- Codes:

 Binary code
 Complementary binary code
 Binary code + complement
 Gray code
- Other codes on request
- Standard functions
 1 pole 10 1 pole 12 positions
 1 pole 16 1 pole 24 positions
 2 poles 6 positions

Options

- Shaft diameter 6.0 or 6.35 mm (0.236 or 0.250 (= 1/4"))
- Hollow shaft 6.0 × 2.10 mm (0.236 × 0.0827)
- Double shaft 6 × 2.10 mm (0.236 × 0.0827)
- Flat shaft
 Length (a): 10 mm
 Thickness (e): 5 mm
 Angulation: K=0°

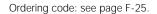
Mechanical data	
Number of banks	RTBV = 1 to 4 $RTBH = 10$
Operating torque	5 Ncm ± 30% (with 1 module)
Mechanical stop resistance	> 70 Ncm
Bush mounting torque	100 Ncm
Stop	With or without
Mounting	By bush with double flat
	or by index at 9.5 mm (0.374) of shaft
Contact material	AG = silver, AU = gold
Housing material	Extinguishible thermoplastic

Electrical data	<u> </u>	AG = silver	AU = gold
Switching mode ¹)		non-shorting (BBM)	non-shorting (BBM)
Max. switching power		5 VA	0.2 VA
Switching current	Max.	250 mA	20 mA
	Min.	10 mA	1 mA
Max. carrying current		5 A	1 A
Voltage	Max.	25 V	25 V
	Min.	5 V	1 V
Bounce		< 5 ms	< 5 ms
Contact resistance after lif	e	$<$ 100 m Ω	$<$ 100 m Ω
Dielectric strength betwee	n contacts		
or contacts and frame		500 V rms	500 V rms
Insulation resistance between	een contacts		
and contacts and frame		$> 10^9 \Omega$	$> 10^9 \Omega$
Number of operations with	n max. power in		
·	24 positions	5 000	10 000
	16 positions	10 000	15 000
	12 positions	10 000	20 000
	10 positions	15 000	25 000

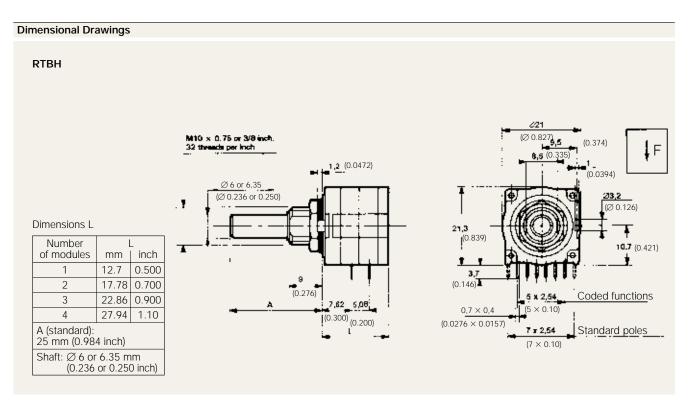
Further data	
Climatic category	25/70/21
Operating temperature	- 25°C to + 70°C
Storage temperature -	- 40°C to + 85°C
Humidity test	21 days (+ 40°C, 93% RH)
Solderability	Conform to spec. CEI 68-2-20
Cleaning	This switch can withstand all operations of soldering and cleaning (solvent and water). Immersion test CEI 68-2-17 and MIL R22.097 F

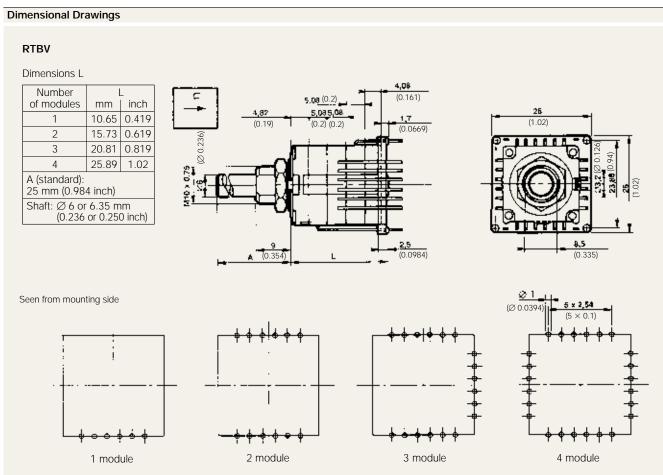
Functions				
Angle between 2 positions	15°	22.5°	30°	36°
Number of positions	24	16	12	10

¹⁾ BBM = Break Before Make (non-shorting)

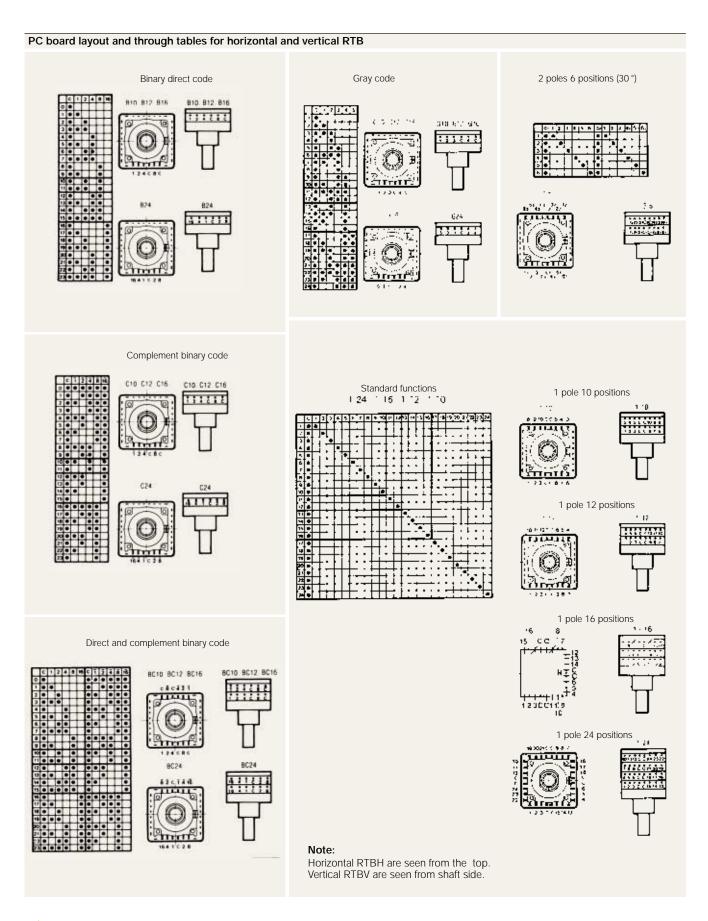




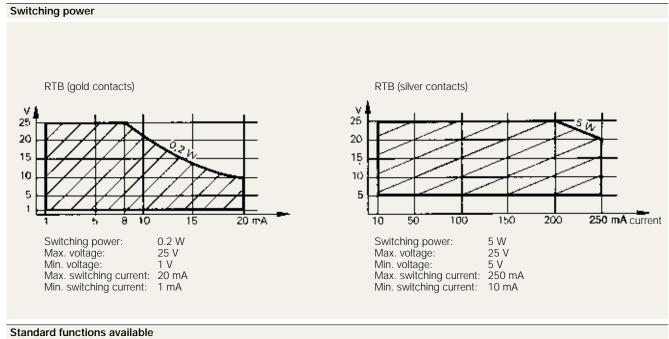












Angle	Max. number of positions	Functions	Number of banks	Functions	Number of banks
15°	24	Binary direct Binary complement Binary direct + complement Gray	1 1 2 1	1 × 24 p NCC	4
36°	10	Binary direct Binary complement Binary direct + complement Gray	1 1 2 1	1 × 10 p NCC	2
22.5, 30°	16	Binary direct Binary complement Binary direct + complement Gray	1 1 2 1	1 × 16 p NCC Bit generator	3
30°	12	Binary direct Binary complement Binary direct + complement Gray	1 1 2 1	1 × 12 p NCC 2 × 6 p NCC	2 2

