SELECTOR SWITCH





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MAIN FEATURES

MINIATURE, UP TO 4 POSITIONS

- > PCB mounting (THT, reflow version on request)
- Switching torque: Up to 3.5 Ncm
- Gold plated contacts
- > Washable (sealed contact system)
- > IP68 front panel sealing
- \rightarrow Operating temperature range: -40 to +85 °C
- Various options and customizations





PRODUCT VARIETY

- Vertical or horizontal mounting
- Shorting or non-shorting
- Switching torque 2.2 or 3.5 Ncm
- Front panel sealing IP60 or IP68
- Number of positions
- Bushing style
- Shaft style and length

POSSIBLE CUSTOMIZATIONS

- Shaft dimension and shape
- Bushing dimension
- Switching torque
- Others

TYPICAL APPLICATIONS

- Industrial controls
- Avionics, test and measurement systems
- Medical and audio equipment
- Mobile equipment
- Transport and constructions machines

SELECTOR SWITCH 07R



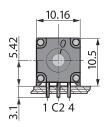


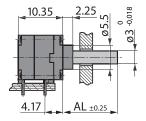
Dimensions and pin assignment

SWITCH DESIGN AND PIN ASSIGNMENT

HORIZONTAL, WITH SHAFT,

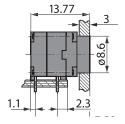
WITHOUT THREADED BUSHING



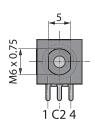


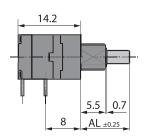
HORIZONTAL, SCREWDRIVER WITH BEZEL



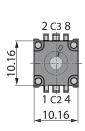


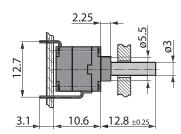
HORIZONTAL, WITH SHAFT, WITH THREADED BUSHING



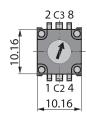


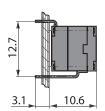
HORIZONTAL, WITH SHAFT, WITHOUT THREADED BUSHING



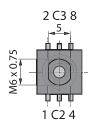


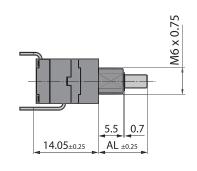
VERTICAL, SCREWDRIVER WITHOUT BEZEL





VERTICAL, WITH SHAFT, WITH THREADED BUSHING





Dimensions in mm Tolerances according to DIN ISO 2768-1 (m), unless otherwise specified

SELECTOR SWITCH 07R

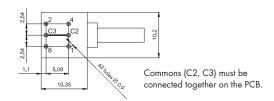


Dimensions and pin assignment

DRILLING DIAGRAM AND FOOTPRINT

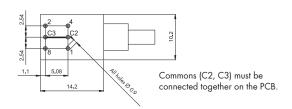
HORIZONTAL, WITH SHAFT, WITHOUT THREADED BUSHING

View from component side of the PCB



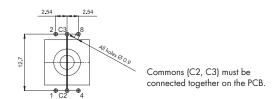
HORIZONTAL, WITH SHAFT, WITH THREADED BUSHING

View from component side of the PCB



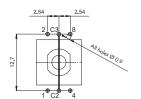
VERTICAL, WITH SHAFT, WITHOUT THREADED BUSHING

View from component side of the PCB



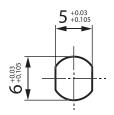
VERTICAL, WITH SHAFT, WITH THREADED BUSHING

View from component side of the PCB



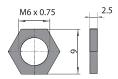
Commons (C2, C3) must be connected together on the PCB.

FRONT PANEL CUT OUT

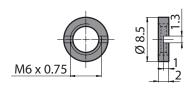


NUT

HEX NUT (SUPPLIED)



SLOTTED NUT



Dimensions in mm

Tolerances according to DIN ISO 2768-1 (m), unless otherwise specified

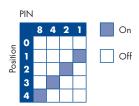
SELECTOR SWITCH





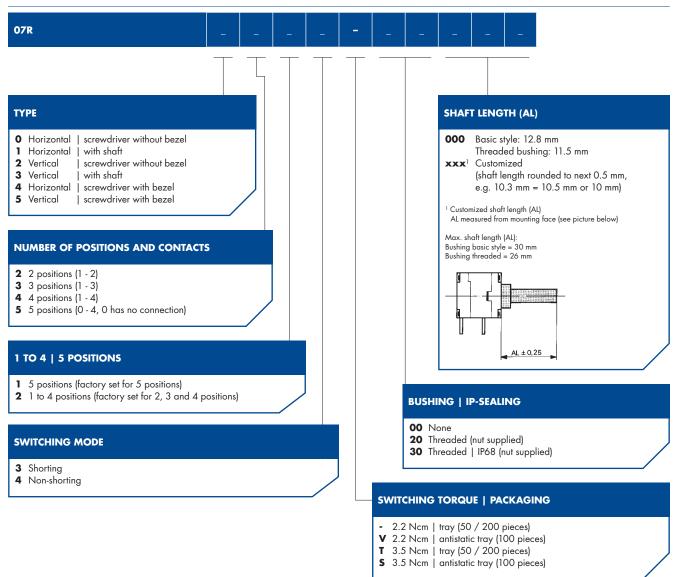
Output signal

PIN TO POSITION DIAGRAM



Ordering information

ORDERING CODE



SELECTOR SWITCH O7R

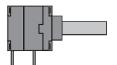


Ordering information

STANDARD TYPES¹

HORIZONTAL

With shaft, without threaded bushing



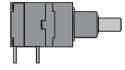
SWITCHING MODE	FUNCTION (POLES X POSITIONS)	PART NUMBER
Shorting	1 x 4	07R1423
Non-shorting	1 x 4	07R1424
Shorting	1 x 5 (4 electrical positions)	07R1513
Non-shorting	1 x 5 (4 electrical positions)	07R1514

Screwdriver with bezel | front panel operation



SWITCHING MODE	FUNCTION (POLES X POSITIONS)	PART NUMBER
Shorting	1 x 4	07R4423
Non-shorting	1 x 4	07R4424
Shorting	1 x 5 (4 electrical positions)	07R4513
Non-shorting	1 x 5 (4 electrical positions)	07R4514

With shaft, with threaded bushing, IP68



SWITCHING MODE	FUNCTION (POLES X POSITIONS)	PART NUMBER
Shorting	1 x 4	07R1423-30000
Non-shorting	1 x 4	07R1424-30000
Shorting	1 x 5 (4 electrical positions)	07R1513-30000
Non-shorting	1 x 5 (4 electrical positions)	07R1514-30000

¹ For other types | options see ordering code

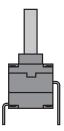


Ordering information

STANDARD TYPES¹

VERTICAL

With shaft, without threaded bushing



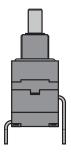
SWITCHING MODE	FUNCTION (POLES X POSITIONS)	PART NUMBER
Shorting	1 x 4	07R3423
Non-shorting	1 x 4	07R3424
Shorting	1 x 5 (4 electrical positions)	07R3513
Non-shorting	1 x 5 (4 electrical positions)	07R3514

Screwdriver with bezel | front panel operation



SWITCHING MODE	FUNCTION (POLES X POSITIONS)	PART NUMBER
Shorting	1 x 4	07R2423
Non-shorting	1 x 4	07R2424
Shorting	1 x 5 (4 electrical positions)	07R2513
Non-shorting	1 x 5 (4 electrical positions)	07R2514

With shaft, with threaded bushing, IP68



SWITCHING MODE	FUNCTION (POLES X POSITIONS)	PART NUMBER
Shorting	1 x 4	07R3423-30000
Non-shorting	1 x 4	07R3424-30000
Shorting	1 x 5 (4 electrical positions)	07R3513-30000
Non-shorting	1 x 5 (4 electrical positions)	07R3514-30000

PACKAGING

Foam polystyrene box:

50 or 200 pieces (depending on shipment quantity)

ACCESSORIES AND SPARE PARTS

Hex nut M6 x 0.75: Slotted nut M6 x 0.75: Part number 4424-22 (50 pieces / bag), brass Part number 4424-28 (50 pieces / bag), brass

Part number 4424-31 (50 pieces / bag), stainless steel (cross slot)

¹ For other types | options see ordering code

SELECTOR SWITCH



Specifications

MECHANICAL DATA	
Detent angle positions:	

Rotary limitation end stop:	Configurable	
Switching torque:	2.2 or 3.5 Ncm (±25 % in new condition)	
Rotational life:	> 10'000 cycles (tested at room temperature)	
Rotational stop strength:	> 45 Ncm	
Fastening torque of nut (front panel mounting):	M6 x 0.75: < 100 Ncm	
ELECTRICAL DATA		
Electrical connection:	Pins 0.4 x 0.7 mm	
Switching voltage:	< 42 VDC (resistive load)	
Switching current:	< 2'000 mA (resistive load)	
Contact resistance:	$<$ 50 m Ω (in new condition)	
Switching function:	1 pole, 2 to 5 positions	
Switching mode:	Shorting or non-shorting	
Dielectric strength:	500 VDC during 60 s (pin-to-pin, pin-to-housing)	
Insulation resistance:	> 1 GΩ at 500 VDC (pin-to-pin, pin-to-housing, in new condition)	

 36° detent angle | 5 positions

MATERIALS

Shaft:	Stainless steel 1.4305
Bushing housing:	Zinc die casting, fiberglass reinforced high performance plastic
Contact surface:	Cu alloy (Au plated)
Soldering leads:	Cu alloy (tin plated)
Hex nut:	Brass
Slotted nut:	Brass or stainless steel
O-rings:	NBR (nitrile rubber), 70 shore A

ENVIRONMENTAL DATA

Operating temperature:	-40 to +85 °C (IEC 60068-2-14)
Storage temperature:	-40 to +85 °C (IEC 60068-2-14)
IP sealing against front panel:	IP60 without sealing IP68 with shaft and front panel sealing (2 bar, 1 h)
Vibration:	10 G _{RMS} at 10 to 2'000 Hz
Flammability:	UL94-HB

SOLDERING CONDITIONS

SOLDERING CONDINONS		
Hand soldering:	< 280 °C during 2 s	
Wave soldering:	< 280 °C during 2 s	



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