S SCHMERSAL Non-Illuminated 22mm IP69K Joystick Selector Switches

Features

- Spring-return (momentary)
- 22mm mounting hole
- Knurled mounting nut
- 6mm front plate thickness
- Front ring material: Plastic
- Bellows material: Silicone
- IP69K





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Non-Illuminated 22mm IP69K Joystick Selector Switches				
Part Number	Price	Drawing Link	Color	Operation
NK-T-21-1ST8-2	\$04c0q:	<u>PDF</u>	blue bellows	Schmersal selector switch, IP65, IP67, IP69, and IP69k, 22mm, 2-position, momentary, (2) N.O. contact(s), plastic base, plastic bezel, Operator: blue, joystick, round, plastic.
NK-T-41-1ST8-2	\$04c0s:	<u>PDF</u>		Schmersal selector switch, IP65, IP67, IP69, and IP69k, 22mm, 4-position, momentary, (4) N.O. contact(s), plastic base, plastic bezel, Operator: blue, joystick, round, plastic.
NK-T-22-2ST8-2	\$;04c0t:	<u>PDF</u>		Schmersal selector switch, IP65, IP67, IP69, and IP69k, 22mm, 2-position, momentary, (4) N.O. contact(s), plastic base, plastic bezel, Operator: blue, joystick, round, plastic.
NK-T-42-2ST8-2	\$04c0u:	<u>PDF</u>		Schmersal selector switch, IP65, IP67, IP69, and IP69k, 22mm, 4-position, momentary, (8) N.O. contact(s), plastic base, plastic bezel, Operator: blue, joystick, round, plastic.
RK-T-21-1ST8-2	\$04c0v:	<u>PDF</u>	gray bellows	Schmersal selector switch, IP65, IP67, IP69, and IP69k, 22mm, 2-position, momentary, (2) N.O. contact(s), plastic base, plastic bezel, Operator: gray, joystick, round, plastic.
RK-T-41-1ST8-2	\$04c0x:	<u>PDF</u>		Schmersal selector switch, IP65, IP67, IP69, and IP69k, 22mm, 4-position, momentary, (4) N.O. contact(s), plastic base, plastic bezel, Operator: gray, joystick, round, plastic.
RK-T-22-2ST8-2	\$04c0y:	<u>PDF</u>		Schmersal selector switch, IP65, IP67, IP69, and IP69k, 22mm, 2-position, momentary, (4) N.O. contact(s), plastic base, plastic bezel, Operator: gray, joystick, round, plastic.
RK-T-42-2ST8-2	\$04c0z:	<u>PDF</u>		Schmersal selector switch, IP65, IP67, IP69, and IP69k, 22mm, 4-position, momentary, (8) N.O. contact(s), plastic base, plastic bezel, Operator: gray, joystick, round, plastic.

Joystick Selection						
Part Number	Service Conditions	Number of				
		Switch Positions	Contacts / Switch Position	Connectors	Color	
NK-T-21-1ST8-2		2	1 (N.O.)	1 (M12, 8-pin)	black ring & blue bellows	
NK-T-41-1ST8-2	Food assessing industry	4				
NK-T-22-2ST8-2	Food processing industry	2	2 (N.O.)	2 (M12, 8-pin)		
NK-T-42-2ST8-2		4				
RK-T-21-1ST8-2		2	1 (N.O.)	1 (M12, 8-pin)	black ring & gray bellows	
RK-T-41-1ST8-2	Rough ambient conditions	4				
RK-T-22-2ST8-2		2	2 (N.O.)	2 (M12, 8-pin)		
RK-T-42-2ST8-2		4				

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Joystick Selector Switches Specifications				
Rated operating voltage U	max. 30 VDC			
Operating current I	max. 0.3 A			
Rated insulation voltage U	30 V			
Rated impulse withstand voltage U _{imp}	0.5 kV			
Degree of pollution	2			
Protection class	ll x			
Switching capacity	max. 7.2 W			
Total actuating travel/switching angle	20°			
Switching point	13° ± 4°			
Actuating frequency	1200/h			
Mechanical life	4-spring return positions: 1 x 10 ⁶			
mechanical me	Per spring return position: 2.5 x 10 ⁶			
Ambient temperature	-40 to 80°C [-40 to 176°F]			
Temperature changes	max 10°C / minute			
Resistance to shock	30g / 11ms			
Continuous shock	10g / 16ms			
	Front: IP65, IP67, IP69/IP69K			
Protection class	Contact chamber: IP67 (with connector attached)			
	Switch rod area: IP30			
Spacing	90 x 90 mm			
Switch functions	2 to 4 switching directions			
Type of switching functions	Button			
Number of reed contacts	1 to 2 per switching direction			
Connection	8-pin M12 connector			
Number of terminals	1 2			
Type of contact	N.O. contacts, shape A			
Front plate thickness	6 mm			
Securing tool	Box spanner AF41			
Mechanical data at room temperature in new state	Mechanical strength: >200 N			
·	Actuating force: <20 N			
Switching principle	Magnetic			
Utilization category	DC-12			
Max fuse rating	0.5 A FF			
Required short-circuit current	100 A			
Standards *	IEC 60947-1, IEC 60947-5-1			

^{*}To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

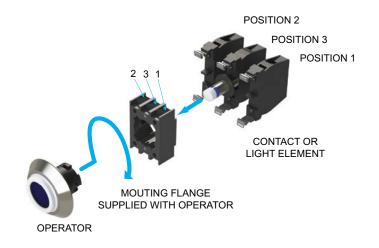
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S SCHMERSAL Control and Signaling Devices 22mm IP69K

Schmersal control and signaling devices have a number of special design features that make the devices suitable for food processing, pharmaceutical, and medical applications. When utilized in food processing machines, these devices comply with the special cleaning requirements of the industry to prevent crosscontamination, particularly when used in machines that process raw goods. With an ingress protection rating of IP69K, Schmersal control and signaling devices are also suitable for marine applications, traffic systems, commercial vehicles, and in dusty and dirty environments.

Features

- Special seals prevent product residue from penetrating in the gaps between the fixed and moving device parts, thus preventing the collection of dirt and bacteria in places that are not easily accessible for cleaning.
- Smooth designs make the devices easy to clean
- Modular contact and light terminal blocks make the devices easy to install.



IP69K Ingress Protection Rating Overview

IP69K high-pressure cleaning test

This rating applies to devices tested in accordance with DIN 40050-9. The goal of this test is to duplicate pressure cleaning conditions on a plant floor. In the test fixture, the devices are exposed to a 1450psi spray of water at a temperature of 175°F. The duration of each cleaning cycle is 30 seconds. The test is performed at specified angles using a spray nozzle located at a distance of 4" from the devices. Devices with this rating must withstand test conditions and still be operable. This rating ensures water proofing protection that exceeds NEMA 4X rating.

Thermal endurance

In pressure environments, controls and signaling devices can be exposed to extreme temperature conditions. To meet the criteria for IP69K rating, devices must undergo a thermal shock test by cycling the environmental temperature to ensure consistent high reliability.



