SCHMERSAL Non-Illuminated 30mm IP65 Plastic Key Selector Switches







ESS32S1.V

Non-Illuminated 30mm IP65 Plastic Key Selector Switches*					
Part Number	Price	Color	Drawing Link	Operation	
<u>ESS21S1.V</u>	\$103.00	Black	<u>PDF</u>	2-position, maintained, key removable left position	
<u>ESS21S12.V</u>	\$103.00	Black	<u>PDF</u>	2-position, maintained, key removable left and right position	
<u>ESS21S2.V</u>	\$103.00	Black	<u>PDF</u>	2-position, maintained, key removable right position	
<u>ESS32S1.V</u>	\$110.00	Black	PDF	3- position, maintained, key removable left position	
<u>ESS32S123.V</u>	\$110.00	Black	PDF	3- position, maintained, key removable left, right and center position	
<u>ESS32S2.V</u>	\$110.00	Black	PDF	3-position, maintained, key removable center position	
<u>ESS32S3.V</u>	\$110.00	Black	PDF	3-position, maintained, key removable right position	

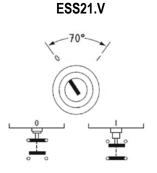
*Operator only. Purchase contact blocks separately.

30mm IP65 Selector Switches Specifications			
Toggle material	Aluminum		
Front ring material	Aluminum		
Front panel thickness	1 to 6 mm		
Mechanical operations	300,000		
Mounting screws tightening torque	0.6 N·m [0.44 lb·ft]		
Ambient temperature	-25 to +75°C [-13 to +167°F]		
Shock resistance	< 50g		
Vibration resistance	5g		
Ingress protection rating	IP65		
Standards *	IEC 60947-5-1; IEC 60947-1; UL File E57648		

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

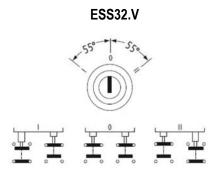
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Key Selector Switches with 2-Positions



	Contact Blocks							
Mounting Positi			Position 1	Mounting	Position 3	Mounting Position 2		
Left (0)	Right (I)	N.C. Contact	N.O. Contact	N.C. Contact	N.O. Contact	N.C. Contact	N.O. Contact	
Х		1	0	1	0	1	0	
	Х	0	1	0	1	0	1	

Key Selector Switches with 3-Positions



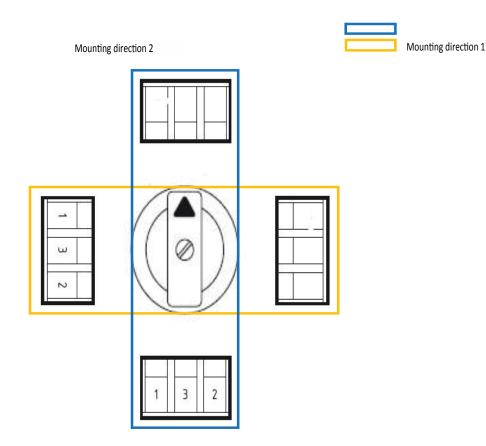
	Contact Blocks						
	Mounting Position 1 Mounting Position 3 Mounting Position 2						Position 2
Left (1)	Middle (0)	Right (11)	N.C. Contact	N.O. Contact		N.C. Contact	N.O. Contact
Х			0	1	Free	1	0
	Х		1	0		1	0
		Х	1	0		0	1

1-800-633-0405

SCHMERSAL Selector Switches

Important: The mounting flange can be mounted in 4 directions. Please have a look on the position of the mounting flange. Only in the two shown directions the truth table is right.

Note: Only on one side are the numbers for the mounting position of the contact blocks.





SCHMERSAL Contact Blocks and Light Terminal Blocks Overview

Features

- A self-cleaning contact bridge system, known as Elan four-way system, which is particularly suitable for low voltage applications and has a lower switching capacity of 5VDC/3.2 mA (max. 400VAC/8A). It is designed in the form of a bent twin contact bridge, with parallel and also diagonal operation.
- Block mounting via snap-on stainless steel springs.

· Complete terminal designations visible at a glance in compliance with IEC 60 947-1 (VDE 0660, Part 100) with a complete function and sequence number (refer also to product ranges). The function number identifies the N.C. and N.O. contact. The sequence number specifies the number and the order of the contacts on the complete switching device.

- N.C. contacts with positive opening in compliance with IEC 60 947-5-1 (VDE 0660 Part 200).
- · Galvanically isolated contact circuits in 2-pole blocks.
- High resistance to shock and vibrations.



Technical Specifications					
	Contact Blocks	Light Blocks (ELE)	Light Blocks (ELDE)		
General description	Contact element	Light terminal block w/Ba9S base	Light terminal block w/LED		
Enclosure material	Plastic, glass fiber reinforced	Plastic, glass fiber reinforced	Plastic, glass fiber reinforced		
Contact material	Fine-silver, phosphor bronze or brass carrier	-	_		
Utilization category	AC-15: 250 V / 8 A DC-13: 24 V / 5 A	-	_		
Suitability for low voltages	≥ 5VDC / 3.2 mA	-	-		
Rated insulation voltage Ui	400V	440V	440V		
Rated impulse withstand voltage U _{imp}	4kV	-	-		
Thermal test current Ithe	10A	-	_		
Max. fuse rating	10A gG D-fuse slow blow	10A gG T-slow blow	10A gG T-slow blow		
Wire size	C	.5 mm ² to 2.5 mm ² (20 - 14 AWG)			
Tightening torque wire connection		Maximum 1 N·m (0.74 lb·ft)			
NEMA contact rating	A300 / P300	-	-		
Switching frequency	1200 s/h	-	_		
Switching capacity	5VDC / 3.2 mA (max 400VAC / 8A)	-	-		
Mechanical life	10,000,000 operation	-	_		
Resistance to shock	110 g/4ms to 30 g/18ms no bouncing	-	_		
Resistance to vibration	> 20 g/10ms to 200Hz	-	_		
Ambient temperature	-25 to +80°C [-13 to +176°F]				
Ingress protection rating	IP20 terminals / IP40 switching compartment	IP20 terminals	IP20 terminals		
Standards	IEC 60	947-5-1; IEC 60947-1; UL File E57648			

NEMA Contact Rating Designation					
	Thermal Current	Voltage	Volt amperes		
A300	10	300 AC	N/A		
P300	5	300 DC	138		

Wiring

Diagram

Application

Standard

Emergency

Stop

1-800-633-0405 **SCHMERSAL Contact Blocks** S

Price

\$9.25

Qty.

1

Drawing

Link

PDF

Part

Number

<u>EF10.1</u>*



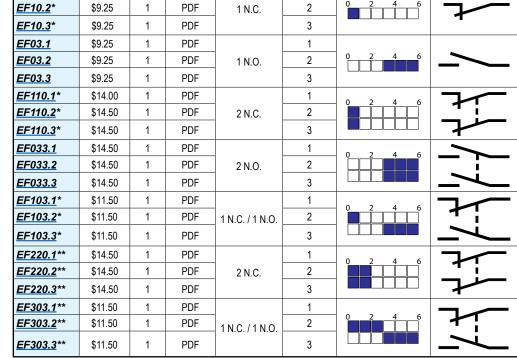












Contacts

Contact Blocks Mounting

Position

1

Travel

Diagram (mm)

EF220.2



*Not suitable for Emergency Stop devices **Not suitable for maintained selector switches NWS/NWT

Tra	vel Diagram Legend
	= contact closed

= contact open

Numbers indicate distance in mm

EF303.2



EEM \$5.00 Schmersal mounting flange replacement. For use with E and N	Part Number	Price	Description
	<u>EFM</u>	\$5.00	Schmersal mounting flange, replacement. For use with E and N se

Mounting Flange Drawing Link PDF eries pushbuttons.

SCHMERSAL Modular Design Flexibility

