## SCHMERSAL Non-Illuminated 30mm IP65 Plastic Selector Switches









EWS21.V

EWS32.V

<u>EWT21.V</u>

<u>EWT32.V</u>

Non-Illuminated 30mm IP65 Plastic Selector Switches*							
Part Number	Price	Color	Drawing Link	Operation			
<u>EWS21.V</u>	\$;4zf7:	Black	PDF	2 position maintained			
<u>EWS21.1.V</u>	\$;4zf8:	Black	PDF	2-position maintained			
<u>EWS32.V</u>	\$;4zfb:	Black	PDF	3-position maintained			
<u>EWS32.1V</u>	\$;4zfc:	Black	PDF	5-position maintained			
<u>EWT21.V</u>	\$;4zf9:	Black	PDF	2 position apring ratura from right			
<u>EWT21.1V</u>	\$;4zfa:	Black	PDF	2-position, spring return from right			
<u>EWT32.V</u>	\$;4zfd:	Black	PDF	2 and the and the state from the ball			
<u>EWT32.1V</u>	\$;4zfe:	Black	PDF	3-position, spring return to center from right or left			

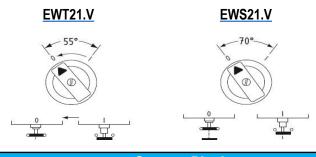
\*Operator only. Purchase contact blocks separately.

Selector Switches Specifications				
Toggle material	Thermoplastic			
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.

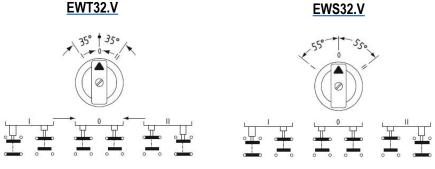
### SCHMERSAL Non-Illuminated 30mm IP65 Plastic Selector Switches

#### **Selector Switches with 2-Positions**



	Contact Blocks									
		Mounting Position 1 Mounting Position 3 Mounting Position 2					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			

#### Selector Switches with 3-Positions EWT32.V



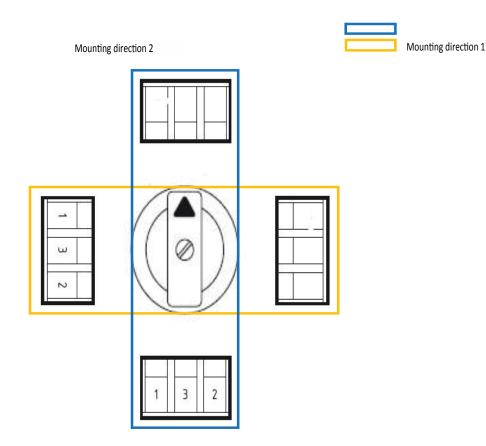
	Contact Blocks								
	Mounting Position 1   Mounting Position 3   Mounting Position 2								
Left (1)	Middle (0)	Right (11)	N.C. Contact	N.O. Contact		N.C. Contact	N.O. Contact		
Х			0	1	Free	1	0		
	X		1	0		1	0		
		Х	1	0		0	1		

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 <sub>imp</sub>	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	0.5 mm <sup>2</sup> to 2.5 mm <sup>2</sup> (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	l Current Voltage Volt ampe				
A300	10	300 AC	N/A			
P300	5	300 DC	138			

Wiring

Diagram

Application

Standard

Emergency

Stop

#### 1-800-633-0405 **SCHMERSAL Contact Blocks** 5

Price

\$;11t?:

\$11u5:

Qty.

1

1

Part

Number

<u>EF10.1</u>\*

EF10.2\*



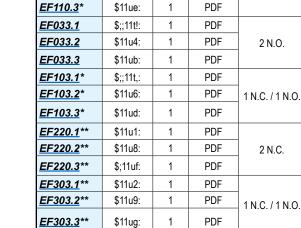












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\$;11t#:	1	PDF		1		
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\$11ua:	1	PDF		3		
\$11u0:	1	PDF		1	0 2 4 6	
\$11u7:	1	PDF	2 N.C.	2		
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Contacts

1 N.C.

Drawing

Link

PDF

PDF

**Contact Blocks** Mounting

Position

1

2

3

Travel

Diagram (mm)

EF220.2



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



= contact open Numbers indicate distance in mm

EF303.2



Г		•		
-				
	F	N	١.	

Mounting Flange						
Part Number	Part Number Price Description Drawing Link					
<u>EFM</u>	\$;4zfz:	Schmersal mounting flange, replacement. For use with E and N series pushbuttons.	PDF			

# SCHMERSAL Modular Design Flexibility

