

SCHMERSAL Non-Illuminated 30mm IP65 Mushroom Pushbuttons

[EDP55.VBL](#)[EDP55.VGB](#)[EDP55.VGN](#)[EDP55.VRT](#)[EDP55.VSW](#)[EDP55.VWS](#)

| Non-Illuminated 30mm IP65 Mushroom Pushbuttons* | | | | | | |
|---|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Part Number | EDP55.VBL | EDP55.VGB | EDP55.VGN | EDP55.VRT | EDP55.VSW | EDP55.VWS |
| Price | \$4ze_: | \$4zep: | \$-4zel: | \$4zen: | \$4zeq: | \$4zeo: |
| Color | Blue | Yellow | Green | Red | Black | White |
| Drawing Link | PDF | PDF | PDF | PDF | PDF | PDF |
| Description | Momentary action non-illuminated IP65 mushroom pushbuttons with 55mm operator and mounting flange | | | | | |
| Mounting diameter | 30.5 mm [1.20 in] | | | | | |
| Actuating stroke | 4 to 5 mm | | | | | |
| Dome material | Aluminum | | | | | |
| Front ring material | Aluminum | | | | | |
| Front panel thickness | 1 to 6 mm | | | | | |
| Weight | 91g [3.20 oz] | | | | | |
| 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 | | | | | |

*Operator only. Purchase contact blocks separately.

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


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 U_i | 400V | 440V | 440V |
| Rated impulse withstand voltage U_{imp} | 4kV | – | – |
| Thermal test current I_{the} | 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 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 60947-5-1; 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 |



SCHMERSAL Contact Blocks



EF03.2



EF10.1



EF103.2



EF220.2



EF303.2



EFM

| Contact Blocks | | | | | | | | |
|---------------------------|----------|------|---------------------|-----------------|-------------------|---------------------|----------------|----------------|
| Part Number | Price | Qty. | Drawing Link | Contacts | Mounting Position | Travel Diagram (mm) | Wiring Diagram | Application |
| EF10.1* | \$;11t?: | 1 | PDF | 1 N.C. | 1 | | | Standard |
| EF10.2* | \$11u5: | 1 | PDF | | 2 | | | |
| EF10.3* | \$11uc: | 1 | PDF | | 3 | | | |
| EF03.1 | \$;11t#: | 1 | PDF | 1 N.O. | 1 | | | |
| EF03.2 | \$11u3: | 1 | PDF | | 2 | | | |
| EF03.3 | \$11ua: | 1 | PDF | | 3 | | | |
| EF110.1* | \$11u0: | 1 | PDF | 2 N.C. | 1 | | | |
| EF110.2* | \$11u7: | 1 | PDF | | 2 | | | |
| EF110.3* | \$11ue: | 1 | PDF | | 3 | | | |
| EF033.1 | \$;11t!: | 1 | PDF | 2 N.O. | 1 | | | |
| EF033.2 | \$11u4: | 1 | PDF | | 2 | | | |
| EF033.3 | \$11ub: | 1 | PDF | | 3 | | | |
| EF103.1* | \$;11t!: | 1 | PDF | 1 N.C. / 1 N.O. | 1 | | | |
| EF103.2* | \$11u6: | 1 | PDF | | 2 | | | |
| EF103.3* | \$11ud: | 1 | PDF | | 3 | | | |
| EF220.1** | \$11u1: | 1 | PDF | 2 N.C. | 1 | | | Emergency Stop |
| EF220.2** | \$11u8: | 1 | PDF | | 2 | | | |
| EF220.3** | \$;11uf: | 1 | PDF | | 3 | | | |
| EF303.1** | \$11u2: | 1 | PDF | 1 N.C. / 1 N.O. | 1 | | | |
| EF303.2** | \$11u9: | 1 | PDF | | 2 | | | |
| EF303.3** | \$11ug: | 1 | PDF | | 3 | | | |

*Not suitable for Emergency Stop devices

**Not suitable for maintained selector switches NWS/NWT

Travel Diagram Legend

= contact closed

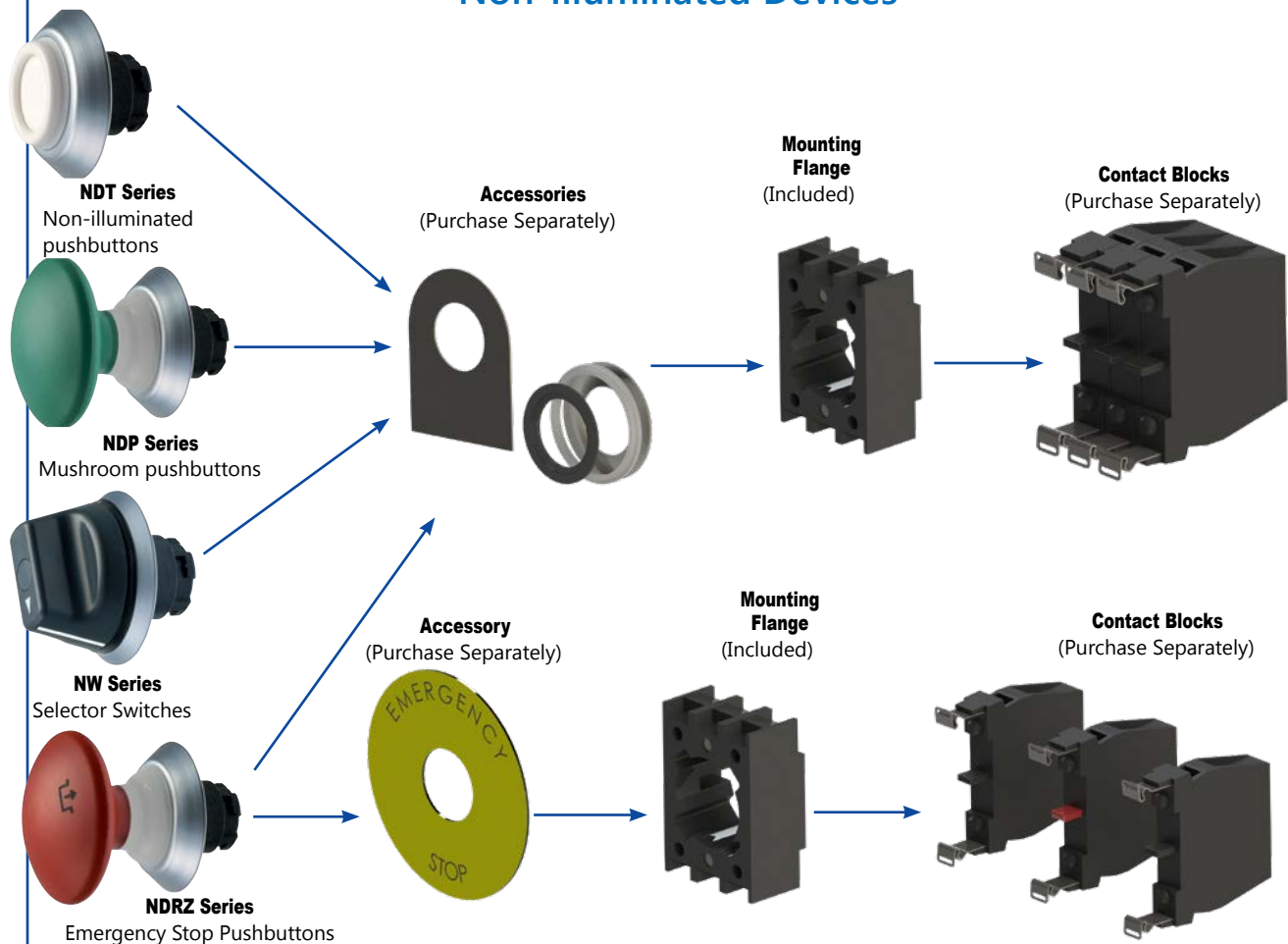
= contact open

Numbers indicate distance in mm

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

SCHMERSAL Modular Design Flexibility

Non-Illuminated Devices



Illuminated Devices

