



# 30mm IP65 Emergency Stop Pushbuttons



**EDRR40.VHRT**



**EDRZ40.VHRT**

| 30mm IP65 Emergency Stop Pushbuttons* |  |   |
|---------------------------------------|--|---|
| Part Number                           | <u>EDRR40.VHRT</u>   | <u>EDRZ40.VHRT</u>  |
| Price                                 | \$38.00  | \$41.00   |
| Front ring color                      | Gold   | Gold  |
| Drawing Link                          | <a href="#">PDF</a>  | <a href="#">PDF</a>   |
| Description                           | Schmersal emergency stop pushbutton, IP65, 30mm, twist-to-release, operator only, plastic base, metal bezel, Operator: red, mushroom, 40mm, round, metal. Requires EFR spring element. Purchase contact blocks separately. | Schmersal emergency stop pushbutton, IP65, 30mm, push-lock pull-reset, operator only, plastic base, metal bezel, Operator: red, mushroom, 40mm, round, metal. Purchase contact blocks separately. |
| Mounting diameter                     | 30.5 mm [1.20 in]  |   |
| Actuating stroke                      | 4 to 5 mm  |   |
| Dome material                         | Anodized aluminum  |   |
| Front ring material                   | Anodized 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                      | > 20g / 10 to 200Hz  |   |
| Ingress protection rating             | IP65   |   |
| Mechanical life                       | 100,000 operations   |   |
| 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.

| Spring Element |         |  |
|----------------|---------|--|
| Part Number    | Price   | Description  |
| <u>EFR</u>     | \$22.00 | Schmersal spring element, for use with Schmersal EDRR40 series emergency stop pushbuttons. |



**EFR**

| Legend Plate |        |                     |   |
|--------------|--------|---------------------|---|
| Part Number  | Price  | Drawing Link        | Description   |
| <u>DPF-9</u> | \$8.50 | <a href="#">PDF</a> | Schmersal blank legend plate, metal, round, yellow field, yellow background. For use with 30mm pilot devices. |



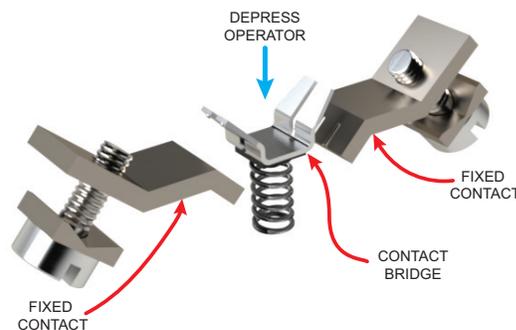
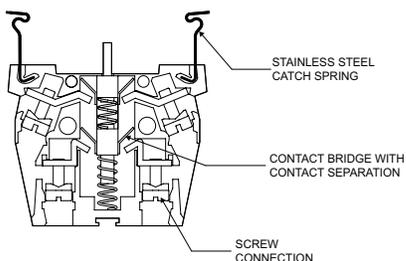
**DPF-9**



# 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)             |
| <b>General description</b>                                  | Contact element  | Light terminal block w/Ba9S base | Light terminal block w/LED      |
| <b>Enclosure material</b>                                   | Plastic, glass fiber reinforced                          | Plastic, glass fiber reinforced  | Plastic, glass fiber reinforced |
| <b>Contact material</b>                                     | Fine-silver, phosphor bronze or brass carrier            | -                                | -                               |
| <b>Utilization category</b>                                 | AC-15: 250 V / 8 A<br>DC-13: 24 V / 5 A                  | -                                | -                               |
| <b>Suitability for low voltages</b>                         | ≥ 5VDC / 3.2 mA  | -                                | -                               |
| <b>Rated insulation voltage <math>U_i</math></b>            | 400V   | 440V                             | 440V                            |
| <b>Rated impulse withstand voltage <math>U_{imp}</math></b> | 4kV  | -                                | -                               |
| <b>Thermal test current <math>I_{the}</math></b>            | 10A  | -                                | -                               |
| <b>Max. fuse rating</b>                                     | 10A gG D-fuse slow blow                                  | 10A gG T-slow blow               | 10A gG T-slow blow              |
| <b>Wire size</b>  | 0.5 mm <sup>2</sup> to 2.5 mm <sup>2</sup> (20 - 14 AWG) |                                  |                                 |
| <b>Tightening torque wire connection</b>                    | Maximum 1 N·m (0.74 lb·ft)                               |                                  |                                 |
| <b>NEMA contact rating</b>                                  | A300 / P300  | -                                | -                               |
| <b>Switching frequency</b>                                  | 1200 s/h   | -                                | -                               |
| <b>Switching capacity</b>                                   | 5VDC / 3.2 mA (max 400VAC / 8A)                          | -                                | -                               |
| <b>Mechanical life</b>                                      | 10,000,000 operation                                     | -                                | -                               |
| <b>Resistance to shock</b>                                  | 110 g/4ms to 30 g/18ms no bouncing                       | -                                | -                               |
| <b>Resistance to vibration</b>                              | > 20 g/10ms to 200Hz                                     | -                                | -                               |
| <b>Ambient temperature</b>                                  | -25 to +80°C [-13 to +176°F]                             |                                  |                                 |
| <b>Ingress protection rating</b>                            | IP20 terminals / IP40 switching compartment              | IP20 terminals                   | IP20 terminals                  |
| <b>Standards</b>  | IEC 60947-5-1; IEC 60947-1; UL File E57648               |                                  |                                 |

| NEMA Contact Rating Designation |                 |         |              |
|---------------------------------|-----------------|---------|--------------|
|                                 | Thermal Current | Voltage | Volt amperes |
| <b>A300</b>                     | 10              | 300 AC  | N/A          |
| <b>P300</b>                     | 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 |
| <a href="#">EF10.1*</a>   | \$9.25  | 1    | <a href="#">PDF</a> | 1 N.C.          | 1                 |                     |                | Standard    |
| <a href="#">EF10.2*</a>   | \$9.25  | 1    | <a href="#">PDF</a> |                 | 2                 |                     |                |             |
| <a href="#">EF10.3*</a>   | \$9.25  | 1    | <a href="#">PDF</a> |                 | 3                 |                     |                |             |
| <a href="#">EF03.1</a>    | \$9.25  | 1    | <a href="#">PDF</a> | 1 N.O.          | 1                 |                     |                |             |
| <a href="#">EF03.2</a>    | \$9.25  | 1    | <a href="#">PDF</a> |                 | 2                 |                     |                |             |
| <a href="#">EF03.3</a>    | \$9.25  | 1    | <a href="#">PDF</a> |                 | 3                 |                     |                |             |
| <a href="#">EF110.1*</a>  | \$14.00 | 1    | <a href="#">PDF</a> | 2 N.C.          | 1                 |                     |                |             |
| <a href="#">EF110.2*</a>  | \$14.50 | 1    | <a href="#">PDF</a> |                 | 2                 |                     |                |             |
| <a href="#">EF110.3*</a>  | \$14.50 | 1    | <a href="#">PDF</a> |                 | 3                 |                     |                |             |
| <a href="#">EF033.1</a>   | \$14.50 | 1    | <a href="#">PDF</a> | 2 N.O.          | 1                 |                     |                |             |
| <a href="#">EF033.2</a>   | \$14.50 | 1    | <a href="#">PDF</a> |                 | 2                 |                     |                |             |
| <a href="#">EF033.3</a>   | \$14.50 | 1    | <a href="#">PDF</a> |                 | 3                 |                     |                |             |
| <a href="#">EF103.1*</a>  | \$11.50 | 1    | <a href="#">PDF</a> | 1 N.C. / 1 N.O. | 1                 |                     |                |             |
| <a href="#">EF103.2*</a>  | \$11.50 | 1    | <a href="#">PDF</a> |                 | 2                 |                     |                |             |
| <a href="#">EF103.3*</a>  | \$11.50 | 1    | <a href="#">PDF</a> |                 | 3                 |                     |                |             |
| <a href="#">EF220.1**</a> | \$14.50 | 1    | <a href="#">PDF</a> | 2 N.C.          | 1                 |                     |                |             |
| <a href="#">EF220.2**</a> | \$14.50 | 1    | <a href="#">PDF</a> |                 | 2                 |                     |                |             |
| <a href="#">EF220.3**</a> | \$14.50 | 1    | <a href="#">PDF</a> |                 | 3                 |                     |                |             |
| <a href="#">EF303.1**</a> | \$11.50 | 1    | <a href="#">PDF</a> | 1 N.C. / 1 N.O. | 1                 |                     |                |             |
| <a href="#">EF303.2**</a> | \$11.50 | 1    | <a href="#">PDF</a> |                 | 2                 |                     |                |             |
| <a href="#">EF303.3**</a> | \$11.50 | 1    | <a href="#">PDF</a> |                 | 3                 |                     |                |             |

\*Not suitable for Emergency Stop devices

\*\*Not suitable for maintained selector switches NWS/NWT

**Travel Diagram Legend**

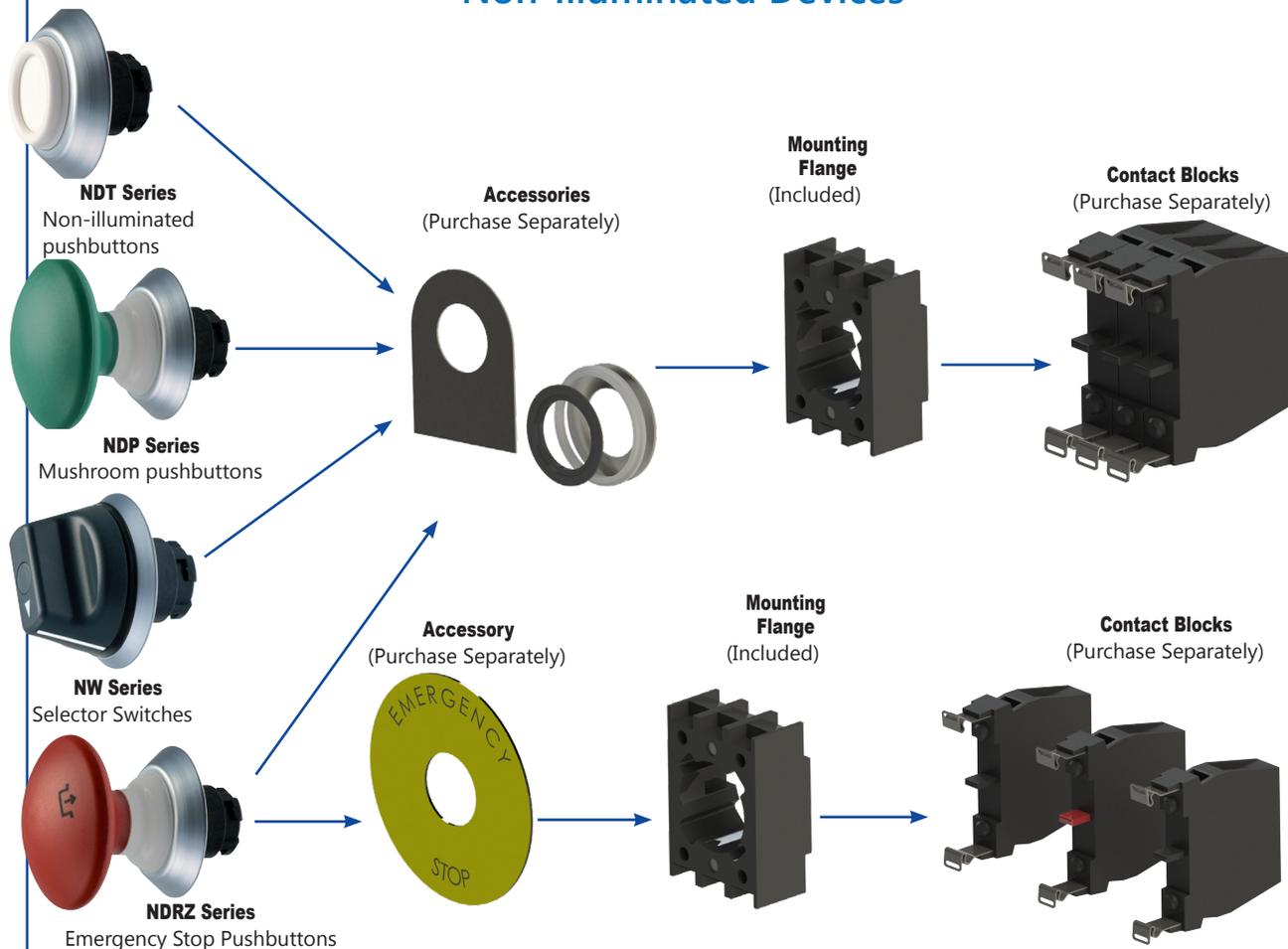
= contact closed  
 = contact open

Numbers indicate distance in mm

| Mounting Flange     |        |  |                     |
|---------------------|--------|--|---------------------|
| Part Number         | Price  | Description  | Drawing Link        |
| <a href="#">EFM</a> | \$5.00 | Schmersal mounting flange, replacement. For use with E and N series pushbuttons. | <a href="#">PDF</a> |

# SCHMERSAL Modular Design Flexibility

## Non-Illuminated Devices



## Illuminated Devices

