



ELECTRICAL COMPONENTS

MONOBLOCK 22.5mm Control Units

- Pushbuttons ▪ Pilot Lights
- E-Stops ▪ Selector Switches
- Indicators ▪ Buzzers



MONOBLOC 22.5mm Control Units

ITC Introduces a new series of 22.5mm plastic MONOBLOC control units, which represent an economical, compact alternative to the traditional products, composed of separate actuator, a bracket and a number of contacts.

Monobloc control units have very small footprint, and aesthetically combine with other 22.5mm panel components.

Features and Specifications:

- Type of contact: NO or NC slow break. NC contacts have “positive opening”
- Rated insulation voltage U_i : 250V
- Current rating AC: 15A make, 1.5A break - Thermal current 2.5A
- Current rating DC: 220mA make/break - Thermal current 1.0A
- Voltage rating: AC 120V, DC 125V
- Wire section: min. 1x0.5mm², max. 2x1.5mm² or 1x2.5mm² - Ferrule or spade terminal required
- Ingress protection: IP54
- Temperature rating: -25 to +70° C
- Applicable standards: UL508, CSA 22.2, IEC 60947-5-1
- Spring return pushbuttons: 1x10⁶ operations
- Push-push pushbuttons: 5x10⁵ operations
- Selectors: 1x10⁴ operations
- Emergency stops: 2x10³ operations
- Approvals: cURus

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Monobloc Control Units

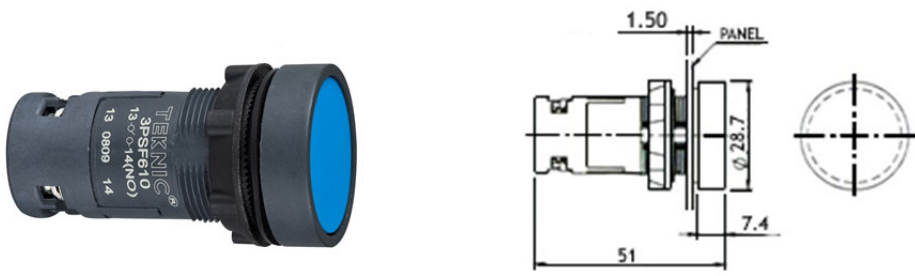
| | |
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| Spring-Return switches | 3 |
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Monobloc LED Indicators and Buzzers

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| Buzzers and Bi-color indicators 12V to 230V..... | 7 |
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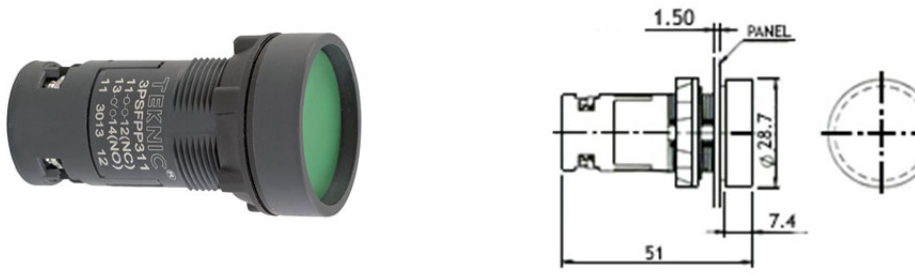
Monobloc Spring return pushbuttons (Order by Part No.)



| Colour | 1NO Contact | 1NC Contact | 1NO+1NC Contact | 2NO Contact | 2NC Contact |
|--------|-------------|-------------|-----------------|-------------|-------------|
| White | RBM-BA1-10 | RBM-BA1-01 | RBM-BA1-11 | RBM-BA1-20 | RBM-BA1-02 |
| Black | RBM-BA2-10 | RBM-BA2-01 | RBM-BA2-11 | RBM-BA2-20 | RBM-BA2-02 |
| Green | RBM-BA3-10 | RBM-BA3-01 | RBM-BA3-11 | RBM-BA3-20 | RBM-BA3-02 |
| Red | RBM-BA4-10 | RBM-BA4-01 | RBM-BA4-11 | RBM-BA4-20 | RBM-BA4-02 |
| Amber | RBM-BA8-10 | RBM-BA8-01 | RBM-BA8-11 | RBM-BA8-20 | RBM-BA8-02 |
| Blue | RBM-BA6-10 | RBM-BA6-01 | RBM-BA6-11 | RBM-BA6-20 | RBM-BA6-02 |

Information subject to change without notice

Monobloc Maintained (“Push-push”) pushbuttons (Order by Part No.)



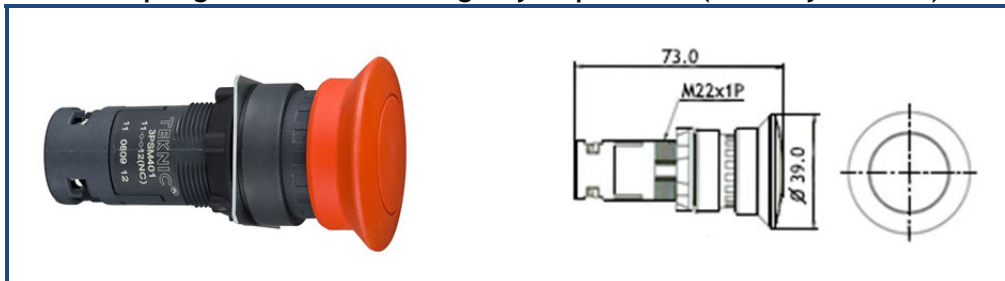
| Colour | 1NO Contact | 1NC Contact | 1NO+1NC Contact | 2NO Contact | 2NC Contact |
|--------|-------------|-------------|-----------------|-------------|-------------|
| White | RBM-BX1-10 | RBM-BX1-01 | RBM-BX1-11 | RBM-BX1-20 | RBM-BX1-02 |
| Black | RBM-BX2-10 | RBM-BX2-01 | RBM-BX2-11 | RBM-BX2-20 | RBM-BX2-02 |
| Green | RBM-BX3-10 | RBM-BX3-01 | RBM-BX3-11 | RBM-BX3-20 | RBM-BX3-02 |
| Red | RBM-BX4-10 | RBM-BX4-01 | RBM-BX4-11 | RBM-BX4-20 | RBM-BX4-02 |
| Amber | RBM-BX8-10 | RBM-BX8-01 | RBM-BX8-11 | RBM-BX8-20 | RBM-BX8-02 |
| Blue | RBM-BX6-10 | RBM-BX6-01 | RBM-BX6-11 | RBM-BX6-20 | RBM-BX6-02 |

Information subject to change without notice





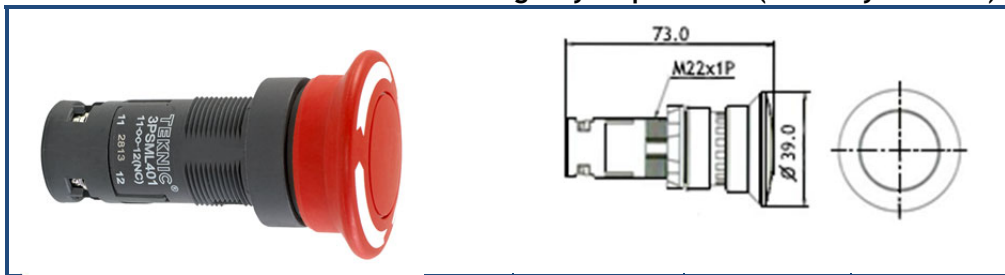
Monobloc Spring Return 40mm Emergency stop devices (Order by Part No.)



| Colour | 1NO Contact | 1NC Contact | 1NO+1NC Contact | 2NO Contact | 2NC Contact |
|--------|-------------|-------------|-----------------|-------------|-------------|
| Red | RBM-BL4-10 | RBM-BL4-01 | RBM-BL4-11 | RBM-BL4-20 | RBM-BL4-02 |

Information subject to change without notice

Monobloc "Turn-to-release" 40mm Emergency stop devices (Order by Part No.)



| Colour | 1NO Contact | 1NC Contact | 1NO+1NC Contact | 2NO Contact | 2NC Contact |
|--------|-------------|-------------|-----------------|-------------|-------------|
| Red | RBM-BS54-10 | RBM-BS54-01 | RBM-BS54-11 | RBM-BS54-20 | RBM-BS54-02 |

Information subject to change without notice

Combine ITC's monobloc series with ITC's vast choice of push-button enclosures to complete your control station!





Monobloc Selector switches (Order by Part No.)

| N. of positions | 1NO Contact | 1NC Contact | 1NO+1NC Contact | 2NO Contact | 2NC Contact |
|-----------------|-------------|-------------|-----------------|-------------|-------------|
| 2-positions | RBM-BD2-10 | RBM-BD2-01 | RBM-BD2-11 | RBM-BD2-20 | RBM-BD2-02 |
| 3-positions | - | - | RBM-BD3-11 | RBM-BD3-20 | RBM-BD3-02 |

Information subject to change without notice - Lever colour: black

Monobloc Key operated Selector switches (Order by Part No.)

| N. of positions | 1NO Contact | 1NC Contact | 1NO+1NC Contact | 2NO Contact | 2NC Contact |
|-----------------|-------------|-------------|-----------------|-------------|-------------|
| 2-positions | RBM-BG2-10 | RBM-BG2-01 | RBM-BG2-11 | RBM-BG2-20 | RBM-BG2-02 |
| 3-positions | - | - | - | RBM-BG3-20 | RBM-BG3-02 |

Information subject to change without notice - Only available upon request (10/2021).

ITC offers a complete line of classic 22.5mm control devices, in metal and plastic, as well as 30mm control devices.





Monobloc LED Indicator Lights and Buzzers

ITC's BU series of Monobloc indicator lights and sound alarms (buzzers) for mounting in 22.5mm panel cutouts combine the convenience of single-component (no separate parts to order or to install) with the long life, low power consumption, high visibility of modern LEDs.



Buzzers have very small footprint, include a luminous red LED indicator and aesthetically combine with other 22.5mm panel components. Connection is by screw terminal. 6V, 36V, 48V and 380VAC are only available upon request.

Monobloc 12 V AC/DC & 24 V AC/DC Indicators (Order by Part No.)

| 12 V AC/DC | | | | 24 V AC/DC | | | |
|---|-------------|---------------|------------|---|-------------|---------------|------------|
|  | | | |  | | | |
| Colour | Part No. | Certification | See Figure | Colour | Part No. | Certification | See Figure |
| White | RB2-BU1-12V | CE, cULus | 1 | White | RB2-BU1-24V | CE, cULus | 1 |
| Green | RB2-BU3-12V | CE, cULus | 1 | Green | RB2-BU3-24V | CE, cULus | 1 |
| Red | RB2-BU4-12V | CE, cULus | 1 | Red | RB2-BU4-24V | CE, cULus | 1 |
| Amber | RB2-BU5-12V | CE, cULus | 1 | Amber | RB2-BU5-24V | CE, cULus | 1 |
| Blue | RB2-BU6-12V | CE, cULus | 1 | Blue | RB2-BU6-24V | CE, cULus | 1 |



Information subject to change without notice, dimensions in figures are in mm

Monobloc 48 V AC/DC & 220V AC/DC Indicator (Order by Part No.)

| 48 V AC/DC | | | | 220 V AC/DC 220 V AC only (figure 1) | | | |
|---|-------------|---------------|------------|---|--------------|---------------|------------|
|  | | | |  | | | |
| Colour | Part No. | Certification | See Figure | Colour | Part No. | Certification | See Figure |
| White | RB2-BU1-48V | CE, cULus | 1 | White | RB2-BU1-220V | CE, cULus | 2 |
| Green | RB2-BU3-48V | CE, cULus | 1 | Green | RB2-BU3-220V | CE, cULus | 2 |
| Red | RB2-BU4-48V | CE, cULus | 1 | Red | RB2-BU4-220V | CE, cULus | 2 |
| Amber | RB2-BU5-48V | CE, cULus | 1 | Amber | RB2-BU5-220V | CE, cULus | 2 |
| Blue | RB2-BU6-48V | CE, cULus | 1 | Blue | RB2-BU6-220V | CE, cULus | 2 |

Information subject to change without notice, dimensions in figures are in mm

Monobloc 110 V AC Indicators (Order by Part No.)

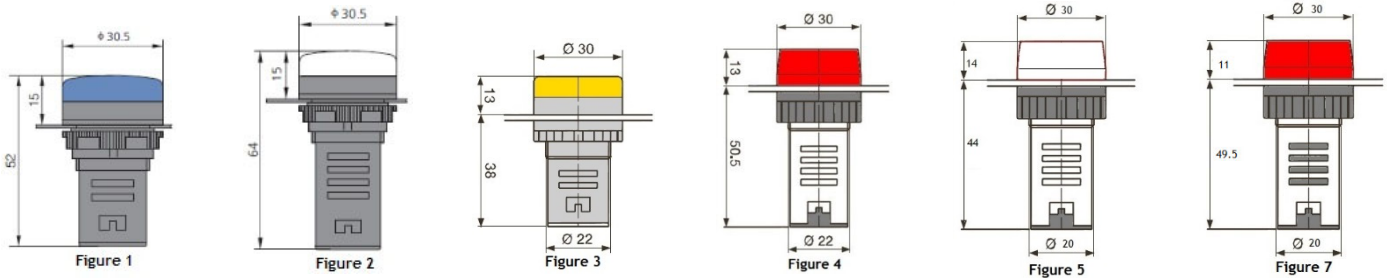
| 110 V AC only | | | | 110 V AC/DC | | | |
|---|----------------|---------------|------------|---|--------------|---------------|------------|
|  | | | |  | | | |
| Colour | Part No. | Certification | See Figure | Colour | Part No. | Certification | See Figure |
| White | RB2-BU1-110VAC | CE, cULus | 1 | White | RB2-BU1-110V | CE, cULus | 7 |
| | | | | White | RB2-BU1-110V | CE, cURus | 3 |
| Green | RB2-BU3-110VAC | CE, cULus | 1 | Green | RB2-BU3-110V | CE, cURus | 3 |
| Red | RB2-BU4-110VAC | CE, cULus | 1 | Red | RB2-BU4-110V | CE, cURus | 3 |
| Amber | RB2-BU5-110VAC | CE, cULus | 1 | Amber | RB2-BU5-110V | CE, cURus | 3 |
| Blue | RB2-BU6-110VAC | CE, cULus | 1 | Blue | RB2-BU6-110V | CE, cULus | 7 |

Information subject to change without notice, dimensions in figures are in mm

BU Series Buzzers & Bi-colour Indicators (Order by Part No.)

| Indicator/Buzzers | | | Bi-colour Indicators | | |
|--------------------------|----------------|------------|----------------------|---------------|------------|
| | | | | | |
| Operation | Part No. | See Figure | Colour | Part No. | See Figure |
| Intermittent - red light | RB2-BUZ1-12V^ | 4 | Green/Red | RB2-BU34-24V | 5 |
| Intermittent - red light | RB2-BUZ1-24V | 4 | Green/Red | RB2-BU34-110V | 5 |
| Intermittent - red light | RB2-BUZ1-110V | 4 | | | |
| Intermittent - red light | RB2-BUZ1-230V^ | 4 | | | |
| Intermittent - no light | RB2-BUZN-12V^ | 4 | | | |
| Intermittent - no light | RB2-BUZN-24V | 4 | | | |
| Intermittent - no light | RB2-BUZN-110V | 4 | | | |
| Intermittent - no light | RB2-BUZN-230V^ | 4 | | | |

^ special order; RB2-BUZ series: no approvals
 Information subject to change without notice, dimensions in figures are in mm



Features and specifications:

- **Relative humidity:** Maximum 85%
- **Rated current:** Maximum 20 mA
- **Operational life:** > 30,000 hours
- **Brightness at rated voltage:** LED indicators > 60 cd/m², Buzzers n.a.
- **Loudness:** LED indicators n.a., Buzzers >70 dB/10cm
- **Maximum voltage:** +10% of rated voltage (AC)
- **Minimum operating voltage:** -15% of rated voltage (AC)
- **Rated wire:** 0.5 to 2.5mm² (22 to 14AWG)
- **Terminal screw maximum torque:** 0.8 Nm
- **Operating temperature:** -5 to 40 °C
- **IP rating:** LED indicators IP65, Buzzers IP20

BUF Series Flashing Monobloc Indicators

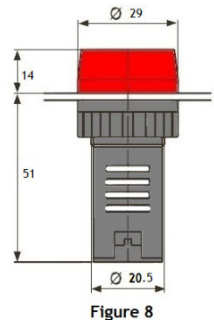
The series BUF flashing Monobloc LED indicators are single-component pilot lights (no separate parts to order or to install), for mounting in 22.5mm panel cutouts, which include a micro circuit which generates a flashing signal.

Available in 4 colours, 12V and 24V AC/DC, no UL/CSA certification.

BUF Series Flashing Monobloc Indicators (Order by Part No.)

| 12 V AC/DC | | | | 24 V AC/DC | | | |
|------------|-------------|-------|------------|------------|-------------|-------|------------|
| | | | | | | | |
| Colour | Part No. | Cert. | See Figure | Colour | Part No. | Cert. | See Figure |
| Green | RB2-BUF3-12 | CE | 8 | Green | RB2-BUF3-24 | CE | 8 |
| Red | RB2-BUF4-12 | CE | 8 | Red | RB2-BUF4-24 | CE | 8 |
| Amber | RB2-BUF5-12 | CE | 8 | Amber | RB2-BUF5-24 | CE | 8 |
| Blue | RB2-BUF6-12 | CE | 8 | Blue | RB2-BUF6-24 | CE | 8 |

Information subject to change without notice, dimensions in Figures are in mm





ELECTRICAL COMPONENTS

416.663.7223
 www.itcproducts.com
 50 Mural St Unit 8
 Richmond Hill, ON L4B 1E4



DIN Rail



DIN Rail Accessories



Hinged Enclosures



Thermal Management



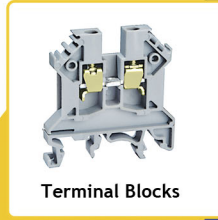
PANEL Lighting



Multipole Connectors



Compact IP68 Connectors



Terminal Blocks



Terminal Strips



Screwless Parallel Connectors



22.5mm Pushbuttons



LED Indicators



Control Stations



Limit Switches



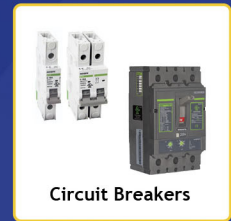
Micro Limit Switches



Safety Switches



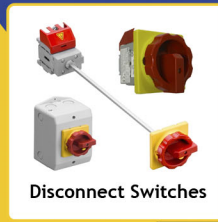
Foot Switches



Circuit Breakers



IEC Contactors



Disconnect Switches



Midget and CC Fuse Holders



Tower Lights



Power Continuity



Ferrules



Colour Coded Lugs



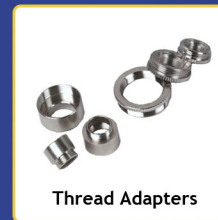
Crimp Terminals



Termination Kits



Cable Glands



Thread Adapters



Cable Entry Systems



Wire Management



DIN Rail Cutters



Assembly Tables



Cutting & Stripping



Crimping Tools



Hole Cutting & Punching Tools

SOME OF OUR MANUFACTURING PARTNERS

