

22MM PLASTIC ROUND COMPLETE UNIT COMBINATION:  
ILLUMINATED PUSHBUTTON WITH FLAT BUTTON ILLUMINATED  
WITH LAMP HOLDER BA 9S WITH LAMP 24V AC/DC SCREW  
TERMINAL, 1NO+1NC OPERATIONAL VOLTAGE 24V AC/DC  
WITH HOLDER RED

|                                             |                        |
|---------------------------------------------|------------------------|
| Design of the product                       | Complete unit round    |
| Enclosure:                                  |                        |
| Shape of the enclosure front                | round                  |
| Material of the enclosure                   | plastic                |
| Number of command points                    | 1                      |
| Actuator:                                   |                        |
| Design of the operating mechanism           | Illuminated pushbutton |
| Manner of function of the actuating element | Momentary contact type |
| Product extension optional Light source     | Yes                    |
| Color                                       |                        |
| • of the actuating element                  | Red                    |
| Material of the actuating element           | plastic                |
| Shape of the actuating element              | Flat pushbutton        |
| Type of unlocking device                    | without                |
| Number of switching positions               | 2                      |
| Front ring:                                 |                        |
| Product component front ring                | Yes                    |
| Design of the front ring                    | Standard               |
| Material of the front ring                  | plastic                |
| Color of the front ring                     | black                  |
| Holder:                                     |                        |
| Material of the holder                      | Plastic                |
| Contact block/ lampholder:                  |                        |
| Mounting type                               | BA 9s with lamp        |
| Number of lampholders                       | 1                      |
| Number of switching elements                | 1                      |
| General technical data:                     |                        |
| Product function                            |                        |
| • positive opening                          | Yes                    |
| • EMERGENCY STOP function                   | No                     |
| Product component                           |                        |
| • Light source                              | Yes                    |

|                                                                     |                   |
|---------------------------------------------------------------------|-------------------|
| <b>Protection class IP</b>                                          | IP66              |
| <b>Vibration resistance</b>                                         |                   |
| • acc. to IEC 60068-2-6                                             | 20 ... 200 Hz: 5g |
| <b>Operating frequency maximum</b>                                  | 1 000 1/h         |
| <b>Mechanical service life (switching cycles)</b>                   |                   |
| • typical                                                           | 3 000 000         |
| <b>Equipment marking</b>                                            |                   |
| • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | S                 |
| • acc. to DIN EN 61346-2                                            | S                 |
| • acc. to DIN EN 81346-2                                            | S                 |

#### Supply voltage:

|                                                          |       |
|----------------------------------------------------------|-------|
| <b>Type of voltage of the supply voltage</b>             |       |
| • of the light source                                    | AC/DC |
| <b>Supply voltage 1 of the light source at AC</b>        |       |
| • at 50 Hz rated value                                   | 24 V  |
| • at 60 Hz rated value                                   | 24 V  |
| <b>Supply voltage 1 of the light source at DC</b>        |       |
| • rated value                                            | 24 V  |
| <b>Relative negative tolerance of the supply voltage</b> | -15 % |
| <b>Relative positive tolerance of the supply voltage</b> | 10 %  |

#### Auxiliary circuit:

|                                                                   |       |
|-------------------------------------------------------------------|-------|
| <b>Number of NC contacts</b>                                      |       |
| • for auxiliary contacts                                          | 1     |
| <b>Number of NO contacts</b>                                      |       |
| • for auxiliary contacts                                          | 1     |
| <b>Number of CO contacts</b>                                      |       |
| • for auxiliary contacts                                          | 0     |
| <b>Consumed current for rated value of supply voltage maximum</b> | 80 mA |
| <b>Operating current at AC-12</b>                                 |       |
| • at 24 V rated value                                             | 10 A  |
| • at 48 V rated value                                             | 10 A  |
| • at 110 V rated value                                            | 10 A  |
| • at 230 V rated value                                            | 10 A  |
| • at 400 V rated value                                            | 10 A  |
| <b>Operating current at AC-15</b>                                 |       |
| • at 24 V rated value                                             | 6 A   |
| • at 48 V rated value                                             | 6 A   |
| • at 110 V rated value                                            | 6 A   |
| • at 230 V rated value                                            | 6 A   |
| • at 400 V rated value                                            | 3 A   |

|                                                                  |                      |
|------------------------------------------------------------------|----------------------|
| <b>Operating current at DC-12</b>                                |                      |
| • at 24 V rated value                                            | 10 A                 |
| • at 48 V rated value                                            | 5 A                  |
| • at 110 V rated value                                           | 2.5 A                |
| • at 230 V rated value                                           | 1 A                  |
| <b>Operating current at DC-13</b>                                |                      |
| • at 24 V rated value                                            | 3 A                  |
| • at 48 V rated value                                            | 1.5 A                |
| • at 110 V rated value                                           | 0.7 A                |
| • at 230 V rated value                                           | 0.3 A                |
| <b>Connections/ Terminals:</b>                                   |                      |
| <b>Type of electrical connection</b>                             | screw-type terminals |
| <b>Tightening torque of the screws in the bracket</b>            | 1 ... 1.2 N·m        |
| <b>Ambient conditions:</b>                                       |                      |
| <b>Ambient temperature</b>                                       |                      |
| • during operation                                               | -25 ... +60 °C       |
| • during storage                                                 | -40 ... +80 °C       |
| <b>Environmental category during operation acc. to IEC 60721</b> | 3K6                  |
| <b>Installation/ mounting/ dimensions:</b>                       |                      |
| <b>Mounting type</b>                                             | front mounting       |
| <b>Shape of the installation opening</b>                         | round                |
| <b>Mounting diameter</b>                                         | 22 mm                |
| <b>Mounting height</b>                                           | 8 mm                 |
| <b>Installation width</b>                                        | 28.5 mm              |
| <b>Installation depth</b>                                        | 63 mm                |
| <b>Accessories:</b>                                              |                      |
| <b>Product component holder for 3 switching elements</b>         | Yes                  |
| <b>Certificates/approvals</b>                                    |                      |

| General Product Approval                                                                 | Declaration of Conformity                                                                | Test Certificates                                                                             | Shipping Approval                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>CSA | <br>EAC | <br>EG-Konf. | <a href="#">spezielle Prüfbescheinigungen</a><br>n<br><br>ABS<br><br>DNV |

| Shipping Approval                                                                                                                                                                                                                                                                 | other                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <br>LRS<br><br>PRS<br><br>RINA | <a href="#">sonstig</a><br><a href="#">Umweltbestätigung</a><br><a href="#">Bestätigungen</a> |

#### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SB3221-0AA21>

**Cax online generator**

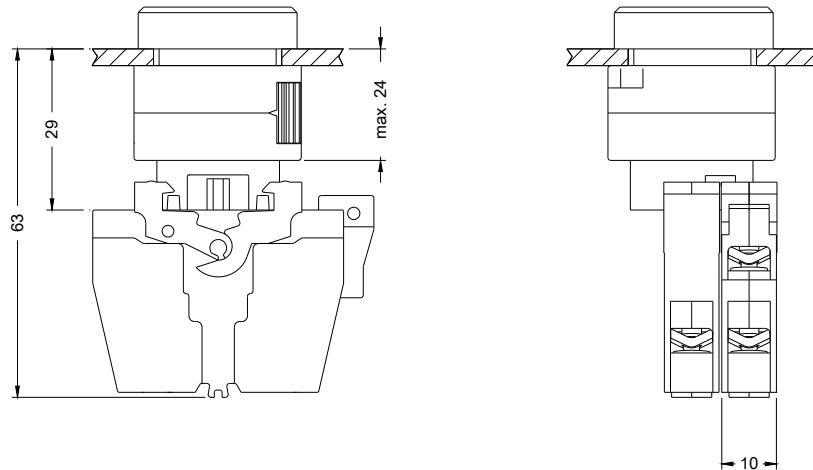
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SB3221-0AA21>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3SB3221-0AA21>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SB3221-0AA21&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SB3221-0AA21&lang=en)



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