

# R.series

EOZ presents the R.series, a range of vandal-resistant pushbuttons that are designed to improve the durability and strength of control panels.

These pushbuttons are protected up to IK09 and IP65, which makes them ideal for use in exposed public areas or aggressive industrial environments. They are mounted in either 16mm or 19mm holes.

The 19mm versions are available with LED illumination, either an attractive 'halo' ring or central dot. The halo effect creates a stylish, contemporary look that is also an effective way to focus the user's attention on a primary function. Please note: the 16mm versions are non illuminated.

## MAIN FEATURES

- Vandal resistance:
  Impact resistant to IK09, sealed to IP65
- Long service life:
  One million operations
- Halo or dot illumination (19mm only)

## TYPICAL APPLICATIONS

- Access control, security systems
- Exposed public areas: ticketing machines, vending machines, kiosks
- Industrial: machinery and factory equipment

## DIMENSIONS

- Button: - Non-illuminated: 16mm / 19mm Ø
  - Illuminated: 19mm Ø

## MATERIALS

- Button: - Non-illuminated:- stainless steel
  - gold-coloured brass
  - nickel-plated brass
  - Illuminated: - stainless steel

## ELECTRICAL CHARACTERISTICS

- Switching rate:- Non-illuminated: 2A / 48VDC
  - Illuminated: 5A / 250VAC
- Electrical life (full load):
  - Non-illuminated:
  16mm: 40,000 cycles 24VDC / 2A
  19mm: 40,000 cycles 48VDC / 2A
  - Illuminated:
  19mm: 50,000 cycles 5A / 250VAC
- Switching element:
  - Contact resistance: ≤50 mΩ
  - Insulation resistance: >1000 MΩ
- Dielectric strength: 2000 VAC

## ENVIRONMENTAL CHARACTERISTICS

- Operating temperature:
  - Non-illuminated: -20°C to +55°C
  - Iluminated: -20°C to +70°C
- Operating humidity:
  45 - 85% RH (no condensation)

RoHS compliant

## MECHANICAL CHARACTERISTICS

- Mechanical lifetime: 1 million cycles
- Actuating force: 5.5 N

## SWITCHING SYSTEM

- Contact arrangement:
  - Non-illuminated (1NO)
  - Illuminated (1NO / 1NC)
- Contact function: momentary
- Contact material: silver alloy
- Terminals:
  - Non-illuminated: screw terminals
  - Illuminated: solder terminals



distributed by:

Switches Plus

SP COMPONENTS

1 300 785 911

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EOZ SOLUTIONS & COMPONENTS



# R.series

## ❑ Non-illuminated pushbutton Ø19 mm

| | Lens | Mounting type | Typ_Nr. |
|---|---|---|---|
| convex - flush | Brass gold-coloured | level with bezel | **R19DFGSTAG** |
| | Brass nickel plated | level with bezel | **R19DFNSTAG** |
| | Stainless steel natural | level with bezel | **R19DFSSTAG** |
| flush - level | Brass gold-coloured | level with bezel | **R19FFGSTAG** |
| | Brass nickel plated | level with bezel | **R19FFNSTAG** |
| | Stainless steel natural | level with bezel | **R19FFSSTAG** |
| flush - raised | Brass gold-coloured | raised above bezel | **R19FRGSTAG** |
| | Brass nickel plated | raised above bezel | **R19FRNSTAG** |
| | Stainless steel natural | raised above bezel | **R19FRSSTAG** |

## ❑ Non-illuminated pushbutton Ø16 mm

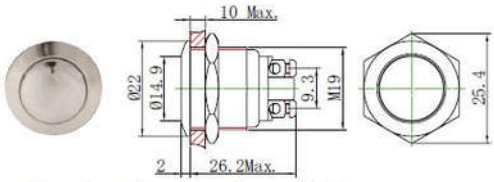
| | | | |
|---|---|---|---|
| convex - flush | Brass gold-coloured | level with bezel | **R16DFGSTAG** |
| | Brass nickel plated | level with bezel | **R16DFNSTAG** |
| | Stainless steel natural | level with bezel | **R16DFSSTAG** |
| flush - level | Brass gold-coloured | level with bezel | **R16FFGSTAG** |
| | Brass nickel plated | level with bezel | **R16FFNSTAG** |
| | Stainless steel natural | level with bezel | **R16FFSSTAG** |
| flush - raised | Brass gold-coloured | raised above bezel | **R16FRGSTAG** |
| | Brass nickel plated | raised above bezel | **R16FRNSTAG** |
| | Stainless steel natural | raised above bezel | **R16FRSSTAG** |

## ❑ Illuminated pushbutton Ø16 mm

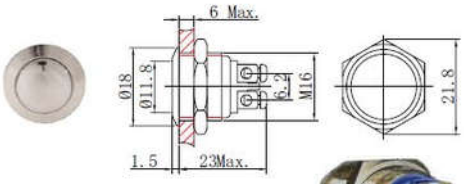
| | Lens | Lighting | Op.vol | Typ-Nr |
|---|---|---|---|---|
| flush - level | Stainless Steel natural | **Ring with blue Led** | 12 V | **R19FFSSPAGRB12** |
| | | | 24 V | **R19FFSSPAGRB24** |
| | | | 3.5 V | **R19FFSSPAGRB3.5** |
| | | **Ring with green Led** | 110 V | **R19FFSSPAGRG110** |
| | | | 12 V | **R19FFSSPAGRG12** |
| | | | 220 V | **R19FFSSPAGRG220** |
| | | | 24 V | **R19FFSSPAGRG24** |
| | | | 3.5 V | **R19FFSSPAGRG3.5** |
| | | **Ring with red Led** | 12 V | **R19FFSSPAGRR12** |
| | | | 24 V | **R19FFSSPAGRR24** |
| | | | 3.5 V | **R19FFSSPAGRR3.5** |
| | | **Ring with white Led** | 12 V | **R19FFSSPAGRW12** |
| | | | 24 V | **R19FFSSPAGRW24** |
| | | **Ring with yellow Led** | 12 V | **R19FFSSPAGRY12** |
| | | | 24 V | **R19FFSSPAGRY24** |
| | | **Dot with blue Led** | 12 V | **R19FFSSPAGDB12** |
| | | | 24 V | **R19FFSSPAGDB24** |
| | | | 3.5 V | **R19FFSSPAGDB3.5** |
| | | **Dot with green Led** | 12 V | **R19FFSSPAGDG12** |
| | | | 24 V | **R19FFSSPAGDG24** |
| | | | 3.5 V | **R19FFSSPAGDG3.5** |
| | | **Dot with red Led** | 12 V | **R19FFSSPAGDR12** |
| | | | 24 V | **R19FFSSPAGDR24** |
| | | **Dot with white Led** | 12 V | **R19FFSSPAGDW12** |
| | | | 24 V | **R19FFSSPAGDW24** |
| | | **Dot with yellow Led** | 12 V | **R19FFSSPAGDY12** |
| | | | 24 V | **R19FFSSPAGDY24** |

## ❑ Non-illuminated Ø19mm and Ø16mm

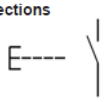
■ **Dimensions: 19mm momentary pushbuttons**




■ **Dimensions: 16mm momentary pushbuttons**




■ **Connections**






Screw terminal
Contacts: 1 Normally open

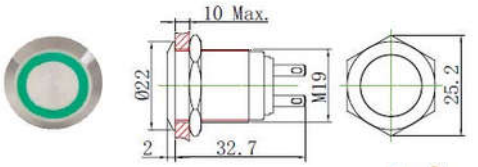
## ❑ Material

Nickel-plated brass | Gold-plated brass | Stainless steel

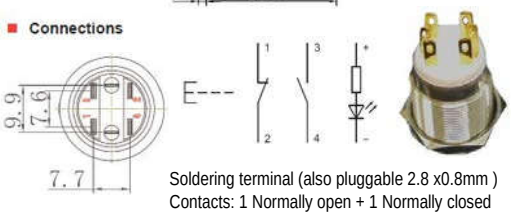


## ❑ Illuminated: 19mm

■ **Dimensions: 19mm momentary pushbuttons**




■ **Connections**




Soldering terminal (also pluggable 2.8 x0.8mm )
Contacts: 1 Normally open + 1 Normally closed

Available LED colours: R G Y O B W

| Voltage | Resistance | Current | Consumption |
|---|---|---|---|
| 3.5V | | | |
| 6V | 270Ω | 15mA | 0.1W |
| 12V | 750Ω | 14mA | 0.17W |
| 24V | 2.1kΩ | 10mA | 0.24W |
| 110V | 56kΩ | 2mA | 0.22W |
| 220V | 180 kΩ | 1.3mA | 0.29W |

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