

Front dimensions: 27 x 27 mm  
Panel cut-out: 24 x 24 mm  
Front bezel height: 2.5 mm  
Travel: 6 mm



# QUARTRON-JUWEL

 Product configurator



## Overview QUARTRON-JUWEL series



01 Pushbutton heads	page 366	07 Key actuators	page 372
02 Emergency-stop heads	page 369	08 Buzzers	page 375
03 Mushroom heads	page 370	09 Pilot light heads / pilot lights	page 377
04 Knob set for potentiometers	page 370	Contact blocks/lampholders	page 414
05 Selector heads	page 370		
06 Toggle heads	page 371		

## Housing colours



degree of protection



operating travel



tactile

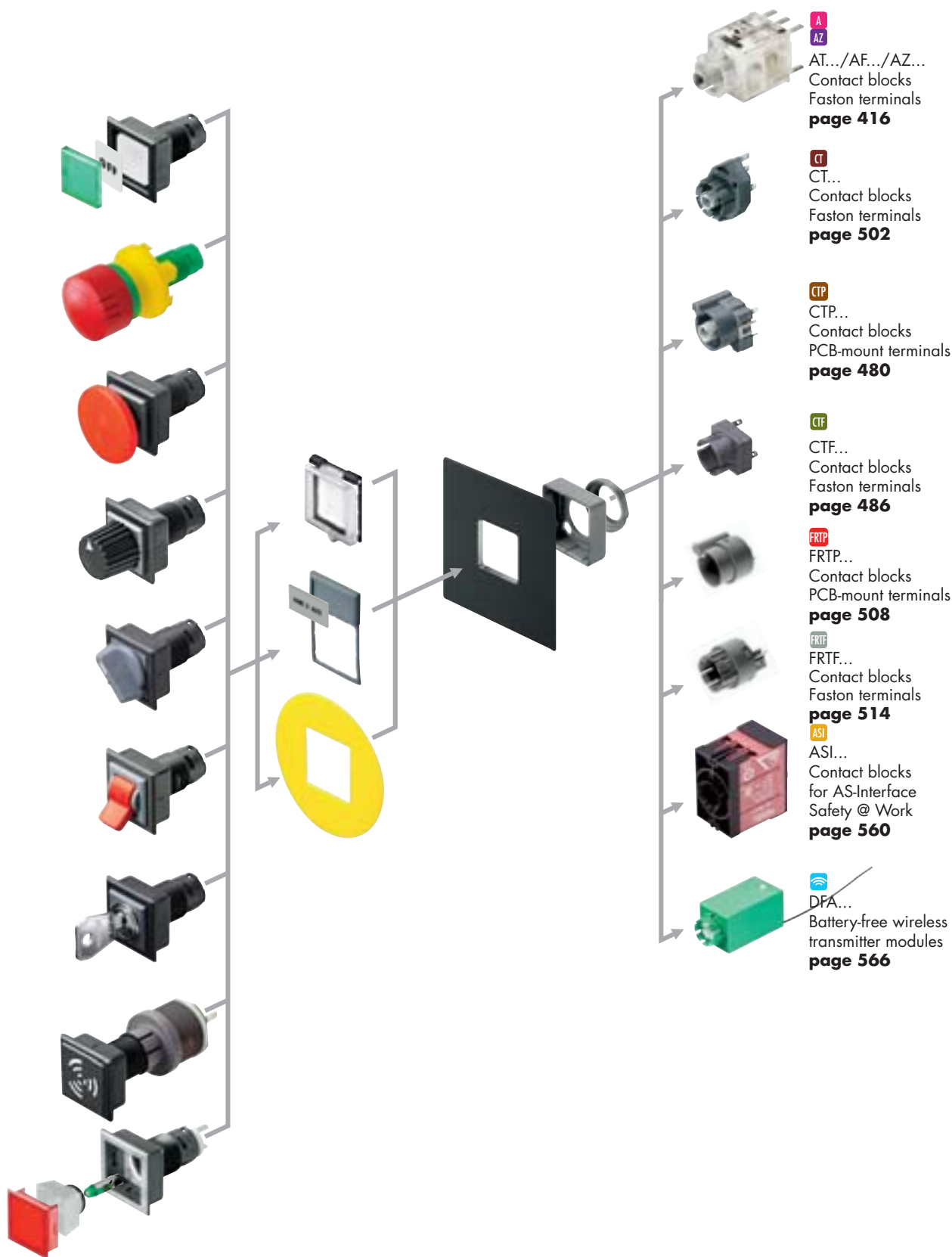


illuminating option



labelling option





**A**  
**AZ**  
AT.../AF.../AZ...  
Contact blocks  
Faston terminals  
**page 416**

**CT**  
CT...  
Contact blocks  
Faston terminals  
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PCB-mount terminals  
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Faston terminals  
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Battery-free wireless  
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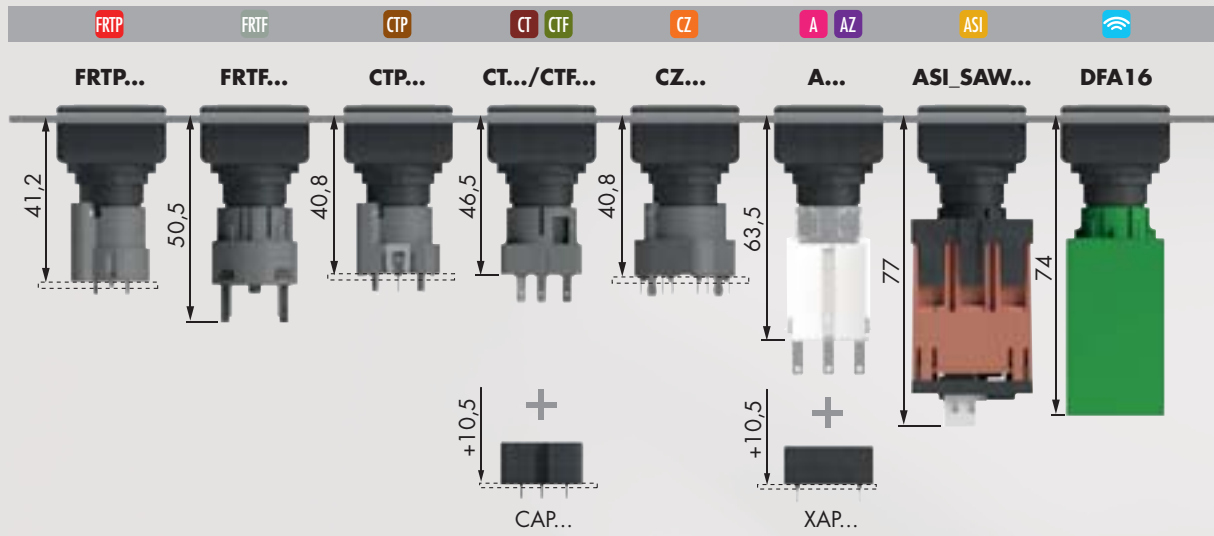
Enclosures

Pedal Switches

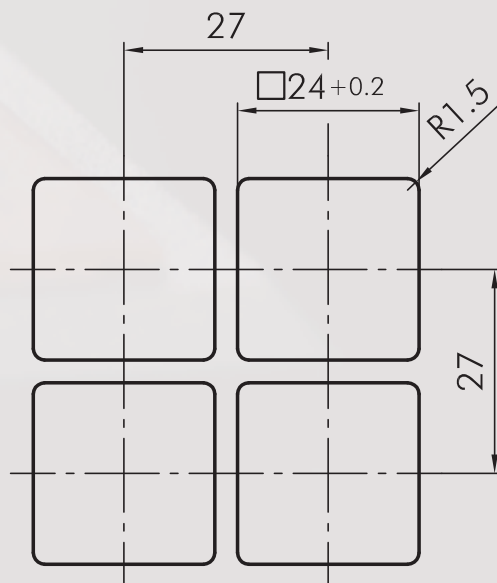
Terminal Blocks

Type Index

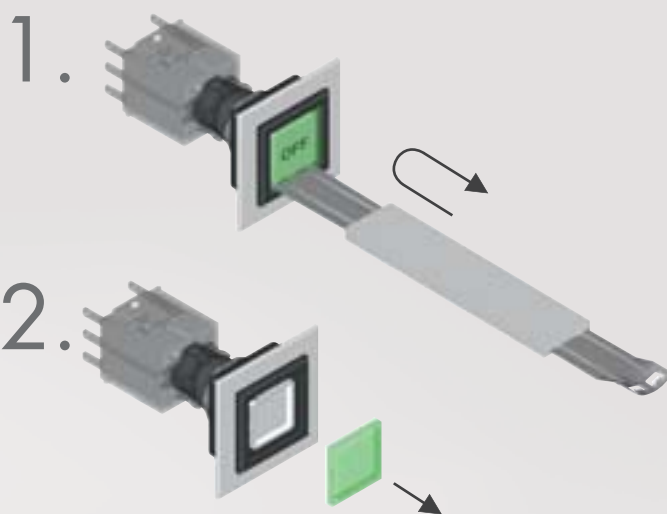
## Mounting depth dimensions



## Cutout dimensions



## Mounting and service instructions





# QUARTRON-JUWEL®

24 x 24 mm

MADE IN GERMANY



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## Pushbuttons

Illustration

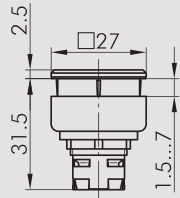
Dimensions

Description

Type

IP66

6 mm



### Pushbutton head

suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel:

black

charcoal

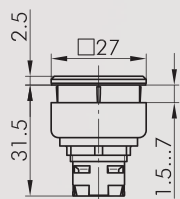


QXJT

QXJTDG

IP65

6 mm



### Pushbutton head with light conductor

two prisms reflect the light from the center to a "window" at the edge of the lens

suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel:

black

charcoal

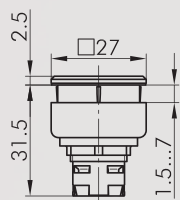


QXJTLL

QXJTLLDG

IP65

3 mm



### Short-stroke pushbutton head

suitable contact blocks:

ASI AZ B B... BZ BZ... B439 CT CTF CTP CZ

front bezel:

black

charcoal



QXJD

QXJDDG

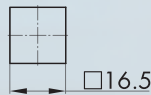
## Accessories



### Nameplate with standard imprint

please specify index number(see nameplates from page 634)

BSQX...



### Nameplate with special imprint

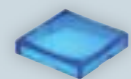
according to customer's specification

BSQXB



### Blank nameplate

BSQXU



### Concave lens, transparent

colour:

blue

yellow

green

clear

red

opal white



T25DBL

T25DGB







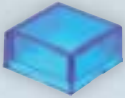




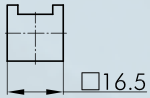

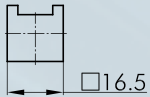
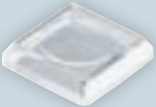
T25DGN

T25DKL

T25DRT

T25DWS

## Accessories for Pushbuttons and Switches

Illustration	Dimensions	Description	Type
		<b>Flat lens, transparent</b> colour:            blue  yellow  green  clear  red  opal white 	T25FBL T25FGB T25FGN T25FKL T25FRT T25FWS
		<b>Flat lens, non-transparent</b> for pushbuttons without inscription and illumination colour:            blue  yellow  green  black  red  white 	T25FGBL T25FGGB T25FGGN T25FGSW T25FGRT T25FGWS
		<b>High lens, transparent</b> colour:            blue  yellow  green  clear  red  opal white 	T25HBL T25HGB T25HGN T25HKL T25HRT T25HWS
		<b>Nameplate with standard imprint</b> please specify index number (see nameplates from page 634)	BSQXLL...
			BSQXLLB
		<b>Blank nameplate</b>	BSQXLLU
		<b>Sealing cap</b> made of silicone rubber, -50°C to +60°C	TK27S

IP67

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# QUARTRON-JUWEL®

24 x 24 mm

MADE IN GERMANY



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## Pushbuttons

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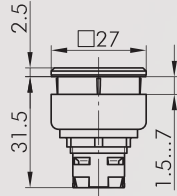
Dimensions

Description

Type

IP67

3 mm



### Short-stroke membrane pushbutton head

- with transparent silicone protection cap, down to -50° C
- with transparent, flat lens, add code letter to type number, e.g. QXJDMRT (red-RT, green-GN, yellow-GB, blue-BL, clear-KL)
- with illuminating option, blank nameplate included standard or special imprints on request

suitable contact blocks:



front bezel:

black

charcoal



QXJDM...

QXJDMDG...

## Emergency-Stops

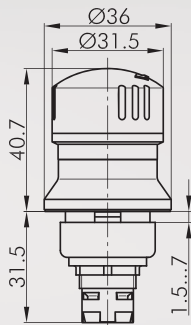
Illustration

Dimensions

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IP65



### Emergency-stop head

Foolproof:	yes
Switching position indicator:	yes
Permissive Contact:	no
Anti-lock collar:	no
Release:	twist right or left
Standard:	EN 60947-5-1, EN 60947-5-5, EN ISO 13850



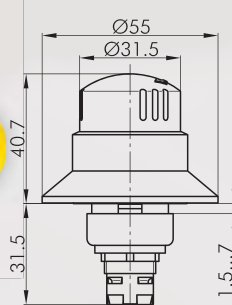
suitable contact blocks:

ASI A AZ FRTP PTP

front bezel:	yellow	
Mushroom head:	red	

**QXJUV**

IP65



### Emergency-stop head with anti-lock collar

Foolproof:	yes
Switching position indicator:	yes
Permissive Contact:	no
Anti-lock collar:	yes
Release:	twist right or left
Standard:	EN 60947-5-1, EN 60947-5-5, EN ISO 13850



suitable contact blocks:

ASI A AZ FRTP PTP

front bezel:	yellow	
Mushroom head:	red	

**QXJBUV**


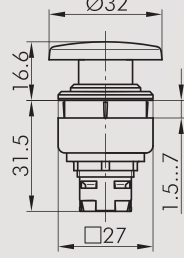

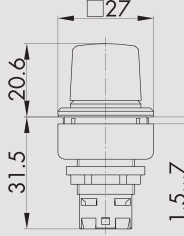

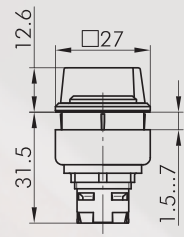

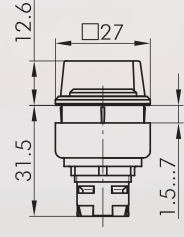

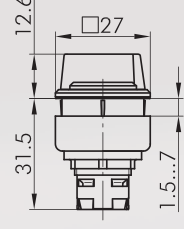


### For further emergency-stops, please refer to the chapter "Emergency-Stop Head" starting on page 594

The emergency-stop heads can also be supplied as latching mushroom heads with mushrooms in different colours.

## Mushroom Pushbuttons

I = Switching position  
> = Spring return

Illustration	Dimensions	Description	Type
 <p>IP65 6 mm</p>	 <p>Ø32 16.6 31.5 1.5...7 27</p>	<p><b>Mushroom head, momentary</b> other mushroom colours on request Switching position indicator: no Permissive Contact: no Anti-lock collar: no</p> <p>suitable contact blocks: A AZ CT CTF CTP CZ</p> <p>front bezel: black Mushroom head: red front bezel: charcoal Mushroom head: red</p>	<p>QXJS QXJSDG</p>
 <p>IP65</p>	 <p>27 20.6 31.5 1.5...7</p>	<p><b>Knob set for potentiometers</b> for potentiometers of 6 mm shaft dia. and thread M10x0.75 delivery without potentiometer shaft length: approx. 50 mm ± 4 mm</p> <p>front bezel: black Knob colour: black front bezel: charcoal Knob colour: black</p>	<p>QXJR QXJRDG</p>
 <p>IP65</p>	 <p>27 12.6 31.5 1.5...7</p>	<p><b>Selector head, maintained</b></p> <p>suitable contact blocks: A AZ CT CTF CTP CZ</p> <p>front bezel: black</p> <p>suitable contact blocks: A AZ</p> <p>front bezel: black</p>	<p>90° QXJWA 45° 45° QXJWB</p>
 <p>IP65</p>	 <p>27 12.6 31.5 1.5...7</p>	<p><b>Selector head, momentary</b></p> <p>suitable contact blocks: A AZ CT CTF CTP CZ</p> <p>front bezel: black</p> <p>suitable contact blocks: A AZ</p> <p>front bezel: black</p>	<p>90° QXJSTA 45° 45° QXJSTB</p>
 <p>IP65</p>	 <p>27 12.6 31.5 1.5...7</p>	<p><b>Selector head, left maintained, right momentary</b></p> <p>suitable contact blocks: A AZ</p> <p>front bezel: black</p>	<p>45° 45° QXJWC</p>

## Toggle Switches

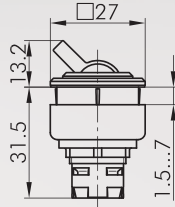
Illustration

Dimensions

Description

Type

IP65



### Toggle head

red toggle (other colours on request)

suitable contact blocks:

**A** **AZ** **CT** **CTF** **CTP** **CZ**

front bezel: black

Knob colour: red

front bezel: charcoal

Knob colour: red

**QXJK**

**QXJKDG**

# QUARTRON-JUWEL®

24 x 24 mm

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**Key Switches** (momentary/maintained)

I = Switching position  
> = Spring return  
O = Key removable position

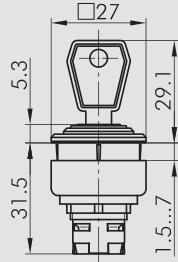
Illustration

Dimensions

Description

Type

IP65



**Key actuator, maintained**

including two keys  
other lock types on request

suitable contact blocks:

A AZ

front bezel: black charcoal



suitable contact blocks:

A AZ

front bezel: black charcoal



suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black charcoal



suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black charcoal



suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black charcoal



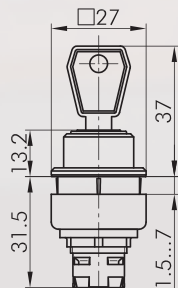
suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black charcoal



IP65



**Key actuator, momentary**

including two keys  
other lock types on request

suitable contact blocks:

A AZ

front bezel: black charcoal



suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black charcoal



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**Key Switches** (momentary/maintained)

I = Switching position  
> = Spring return  
O = Key removable position

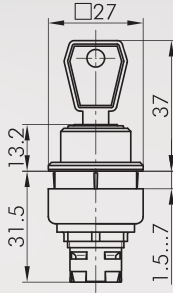
Illustration

Dimensions

Description

Type

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**Key actuator, left maintained, right momentary**

including two keys  
other lock types on request

suitable contact blocks:

A AZ

front bezel: black charcoal



**QXJSSA24E**  
**QXJSSDGA24E**

suitable contact blocks:

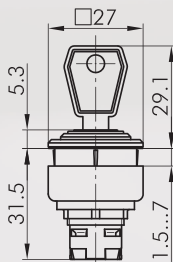
A AZ

front bezel: black charcoal



**QXJSSA25E**  
**QXJSSDGA25E**

IP65



**Key actuator with protection cap, maintained**

including two keys  
other lock types on request

suitable contact blocks:

A AZ

front bezel: black



**QXJSSKA12E**

suitable contact blocks:

A AZ

front bezel: black



**QXJSSKA13E**

suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black



**QXJSSKA14E**

suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black



**QXJSSKA15E**

suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black



**QXJSSKA17E**

suitable contact blocks:

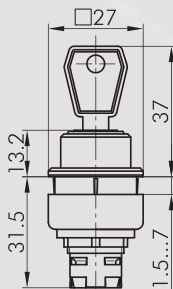
A AZ CT CTF CTP CZ

front bezel: black



**QXJSSKA18E**

IP65



**Key actuator with protection cap, momentary**

including two keys  
other lock types on request

suitable contact blocks:

A AZ

front bezel: black



**QXJSSKA23E**

suitable contact blocks:

A AZ CT CTF CTP CZ

front bezel: black



**QXJSSKA27E**



# QUARTRON-JUWEL®

24 x 24 mm

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## Key Switches (momentary/maintained)

I = Switching position  
> = Spring return  
O = Key removable position

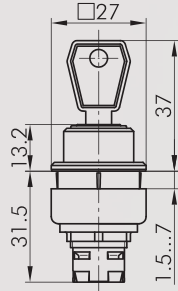
Illustration

Dimensions

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IP65



### Key actuator with protection cap, left maintained, right momentary

including two keys  
other lock types on request

suitable contact blocks:

A AZ

front bezel: black



QXJSSKA24E

suitable contact blocks:

A AZ

front bezel: black



QXJSSKA25E

## Accessories



### Spare key (standard)

standard spare key, specify key number for special locks

ESE845

## Buzzers

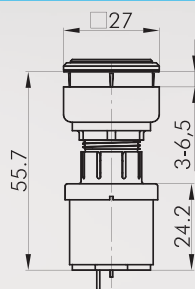
Illustration

Dimensions

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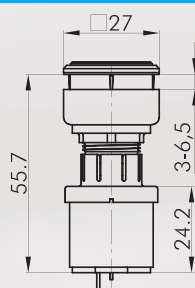
### Buzzer

operating voltage: 12 ... 24V AC/DC  
operating current: 5mA (12V DC)  
16mA (12V DC)  
signal frequency: 3.8 +/- 0.5 kHz  
volume: max. 90 db (10 cm, 24V)  
max. 80 db (10 cm, 12V)  
operating temperature: -20°C ... 60°C  
Connection type: Faston terminals 2.8x0.8 mm

front bezel: black

**QXJNSG+SG-24V**

IP65



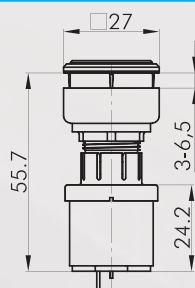
### Interval buzzer

operating voltage: 12 ... 24V DC  
operating current: max. 30mA  
signal frequency: 3.5 +/- 0.5 Hz  
volume: max. 90 db (10 cm, 24V)  
max. 80 db (10 cm, 12V)  
intervall: 1s  
operating temperature: -20°C ... 60°C  
Connection type: Faston terminals 2.8x0.8 mm

front bezel: black

**QXJNSG+SGL-24V**

IP65



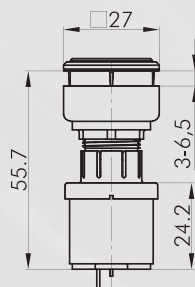
### Illuminated buzzer

operating voltage: 12 ... 24V AC/DC  
operating current: max. 30mA  
signal frequency: 3.5 +/- 0.5 Hz  
volume: max. 90 db (10cm, 24V)  
max. 80 db (10cm, 12V)  
operating temperature: -20°C ... 60°C  
Connection type: Faston terminals 2.8x0.8 mm

front bezel: black

**QXJNSGL+SGLR-24V**

IP65



### Illuminated interval buzzer

operating voltage: 12 ... 24V DC  
operating current: abt. 30mA  
signal frequency: 3.5 +/- 0.5 kHz  
volume: max. 90 db (10 cm, 24V)  
max. 80 db (10 cm, 12V)  
intervall: 1s  
operating temperature: -20°C ... 60°C  
Connection type: Faston terminals 2.8x0.8 mm

front bezel: black

**QXJNSGL+SGLR-24V**

## Accessories



### Faston clamp 2.8 x 0.8 mm with snap-in pin

FH2,8

cross section 0.75 - 1.50 mm<sup>2</sup>, tin-plated brass, with pin to snapfit into the sockets XA, XAL and the insulating case IH2.8

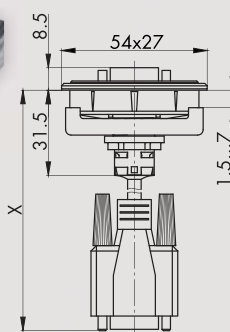
## Accessories for Contact Blocks

Illustration	Dimensions	Description	Type
--------------	------------	-------------	------



**Insulating case**  
for Faston clamp FH2,8, slip on from the front

IH2,8

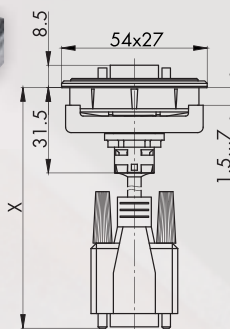


### VGA jack/connector

front:  
VGA jack  
rear:  
VGA -cable (length X=1000 mm) with connector

front bezel: black

LXJ\_VGA\_100CM



### RS232 jack/connector

front:  
RS232 jack  
rear:  
RS232 cable (length X=1000 mm) with connector  
9-pole through-connected also suitable for RS485

front bezel: black

LXJ\_RS232\_100CM



For panel mount jacks, please refer to page 572

## Pilot Lights

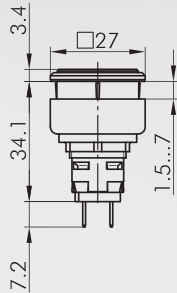
Illustration

Dimensions

Description

Type

IP65



### Pilot light with Faston terminals 2.8x0.8 mm

T5.5K socket

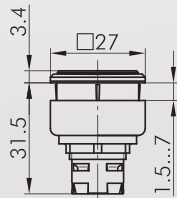
Connection type: Faston terminals 2.8x0.8 mm

front bezel: black charcoal



**QXJL5**  
**QXJL5DG**

IP65



### Pilot light head

suitable lampholders:

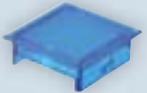
A CT CTF CTP CZ

front bezel: black charcoal



**QXJN**  
**QXJNDG**

## Accessories

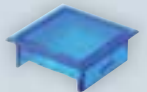


### Flat lens, depolished

colour: blue yellow green red opal white



**KF25BL**  
**KF25GB**  
**KF25GN**  
**KF25RT**  
**KF25WS**



### Flat lens, transparent

colour: blue yellow green clear red



**KF25KSBL**  
**KF25KSGB**  
**KF25KSGN**  
**KF25KSKL**  
**KF25KSRT**



### Nameplate with standard imprint

please specify index number(see nameplates from page 634)

**BSQX...**



### Nameplate with special imprint

according to customer's specification

**BSQXB**



### Blank nameplate

**BSQXU**

## 7-Segment Displays

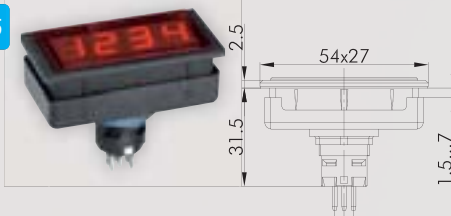
Illustration

Dimensions

Description

Type

IP65



### 4-digit 7-segment display with serial interface

operating temperature: -30 bis +70°C  
 operating voltage: 24V DC (18-28V)  
 current consumption: 70mA at 24V  
 inputs (enable, clock, data): 24V PLC level  
 clock pulse rate: 0...10kHz  
 data telegram: 20 bit, serial  
 available character set: 0...9, A, I, II, U, -, blank  
 connection: via integrated 6-pole diode plug acc. to DIN 45322  
 option: parallel control (8 bit) via additional module

front bezel: black



LXJLASCE-SPS



### DIN female connector

serves to connect the 7-segment displays in compliance with DIN 45322

MAK6

## Accessories



### Mounting tool 16

with torque limitation  
 for the series OKTRON, OKTRON-JUWEL, OKTRON-R, RONTRON-RJUWEL, RONTRON-QJUWEL, QUARTRON, QUARTRON-JUWEL, RXJUWEL

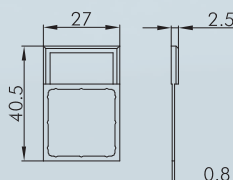
S16



### Mounting tool adapter with 1/4" connections

for mounting tools S16 and S22

SRA



### External nameplate holder

for outside marking of the actuators of the QUARTRON-JUWEL series  
 accepts self-adhesive nameplates

colour: charcoal



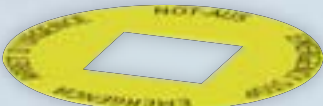

QXJABT

### Self-adhesive nameplate laser-printed

inscription according to customer's specification  
 dimensions: 22 x 11 mm

BZ16L...

## Accessories for Pushbuttons and Switches

Illustration	Dimensions	Description	Type
		<b>Self-adhesive nameplate blank</b> dimensions: 22 x 11 mm	BZ16U
		<b>Self-adhesive nameplate with standard imprint</b> please specify index number(see nameplates from page 634) dimensions: 22 x 11 mm	BZ16B...
		<b>Yellow nameplate</b> self-adhesive PVC foil printing on request outer dia. 60 mm for mounting aperture 24 x 24 mm  colour: yellow 	NAS_24
		<b>Yellow nameplate with quadrilingual imprint</b> self-adhesive PVC foil outer dia. 60 mm for mounting aperture 24 x 24 mm  colour: yellow 	NAS_24_548
		<b>Lead-sealable protective lid</b> fits on the pushbuttons of the QUARTRON-JUWEL series Attention: mounting grid 30 x 30mm	KDP24
		<b>Universal lens remover</b>	USK
		<b>Dummy</b> to close unused mounting apertures  colour: black 	QX24

IP65

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→ Pushbuttons and Switches

Panel Mount Jacks

Emergency-Stop Buttons

Bus Technology

RFID

Enclosures

Pedal Switches

Terminal Blocks

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