



Supplement to catalogue 2012

- KOMBITAST-R-JUWEL
- SHORTRON
- mYnitron

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KOMBITAST-RJUWEL series page 02



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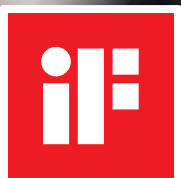
Terminal Blocks

Pedal Switches

Limit Switches

Type Index

tested down to
-40°C | -40°F



product
design award

2013



German
Design Award

WINNER 2014

Front dimensions: Ø 36 mm

Panel cut-out: Ø 30.5 mm

Front bezel height: 2.7 mm

Travel: 6 mm



KOMBITAST-R-JUWEL

KOMBITAST-R-JUWEL

Ø 30.5 mm

made in germany



Overview - KOMBITAST-R-JUWEL series



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03 Knob Set for Rotary Switches/Potentiometers	page 14		
04 Selector Heads	page 16	Contact blocks/Lampholders	see main catalogue
05 Toggle Heads	page 19		
06 Key Actuators	page 20		

Housing Colours (silver-coloured, stainless steel, charcoal)

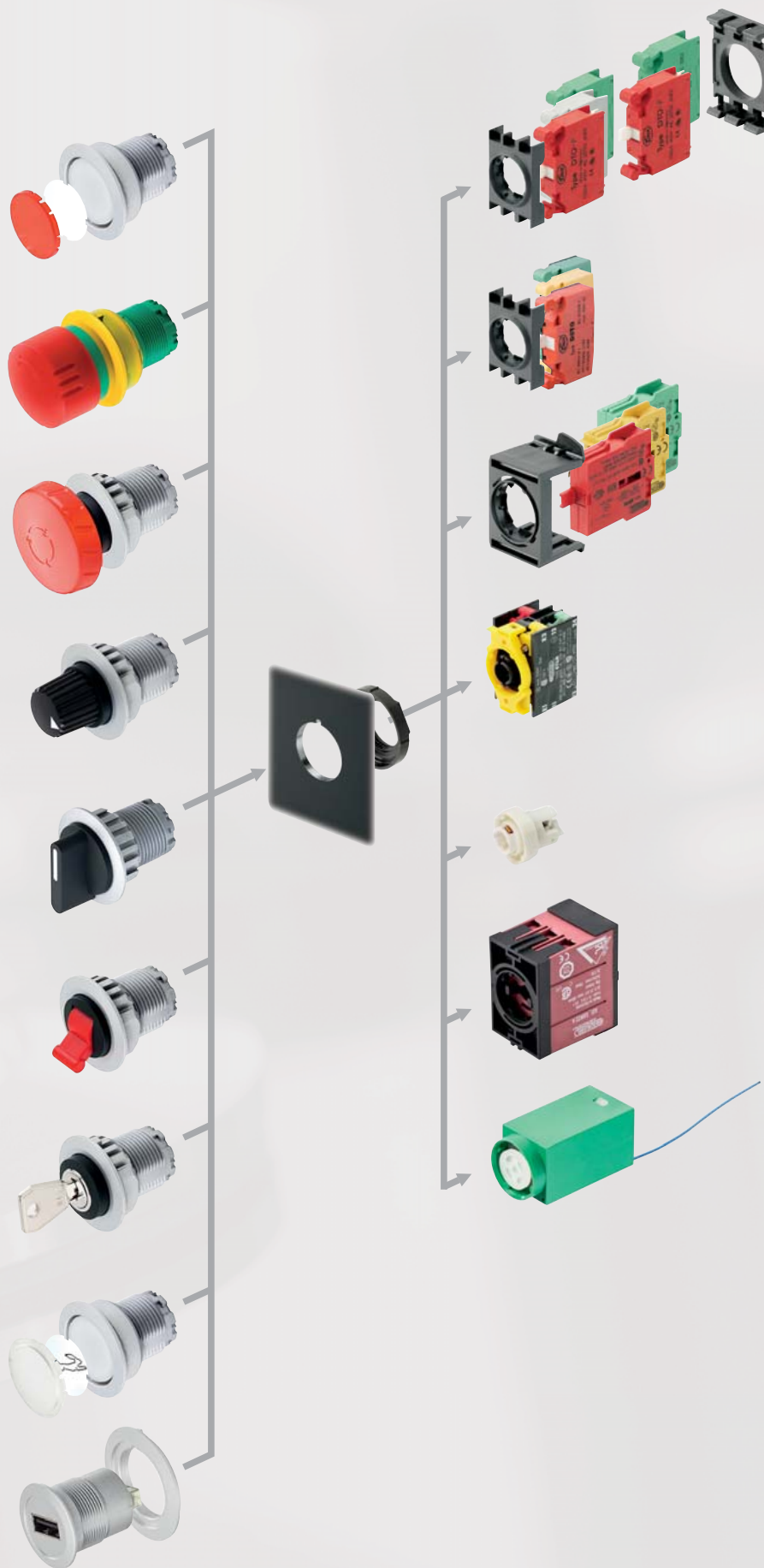


IP65 degree of protection

6 mm operating travel

illuminating option

labelling option



DT...
Modular Contact Blocks
spring-clamp connection
main catalogue 2012
page 546



DS...
Modular Contact Blocks
push-in connection
main catalogue 2012
page 540



MT...
Modular Contact Blocks
screw connection
main catalogue 2012
page 530



ET...
Contact Blocks
screw connection
main catalogue 2012
page 524



ASI...
Contact Blocks
for AS-Interface
Safety @ Work
main catalogue 2012
page 564



DFA...
Battery-free
Transmitter Module
main catalogue 2012
page 735

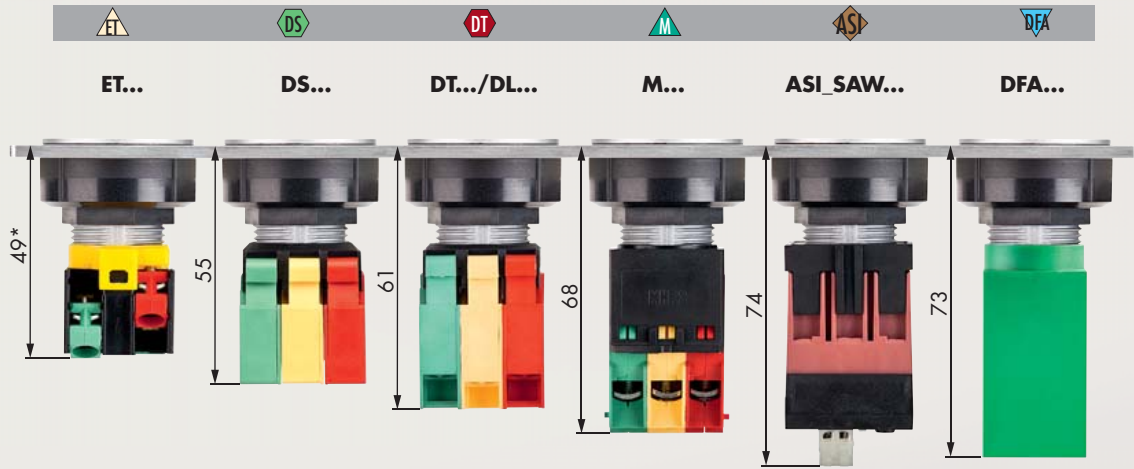
KOMBITAST-R-JUWEL

Ø 30.5 mm

made in germany

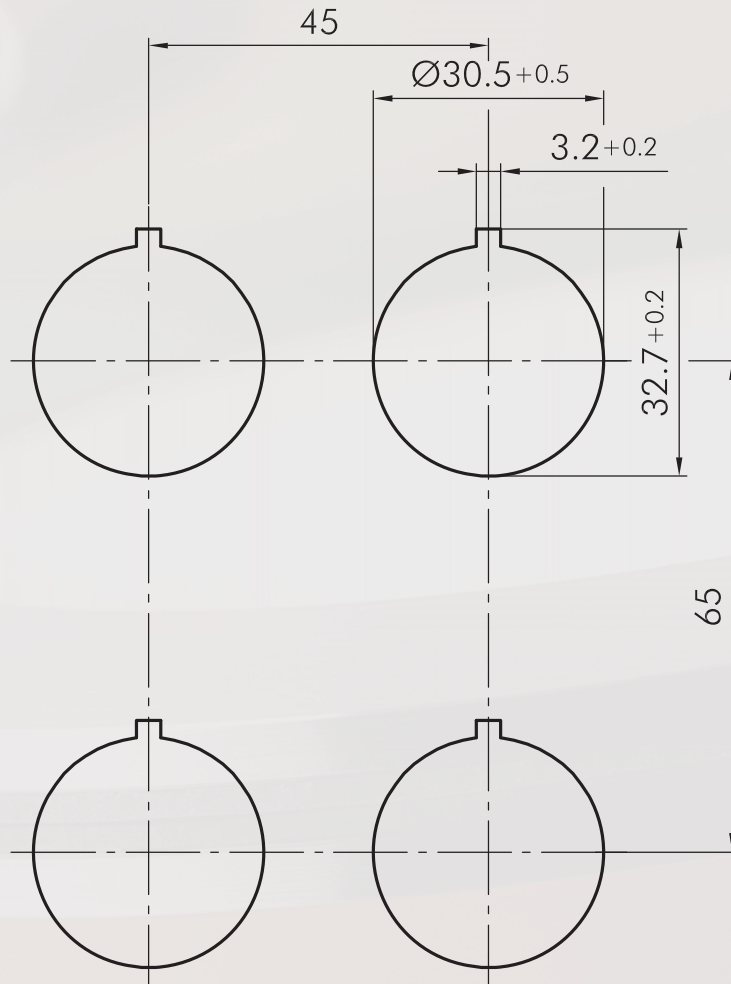


Mounting Depth Dimensions

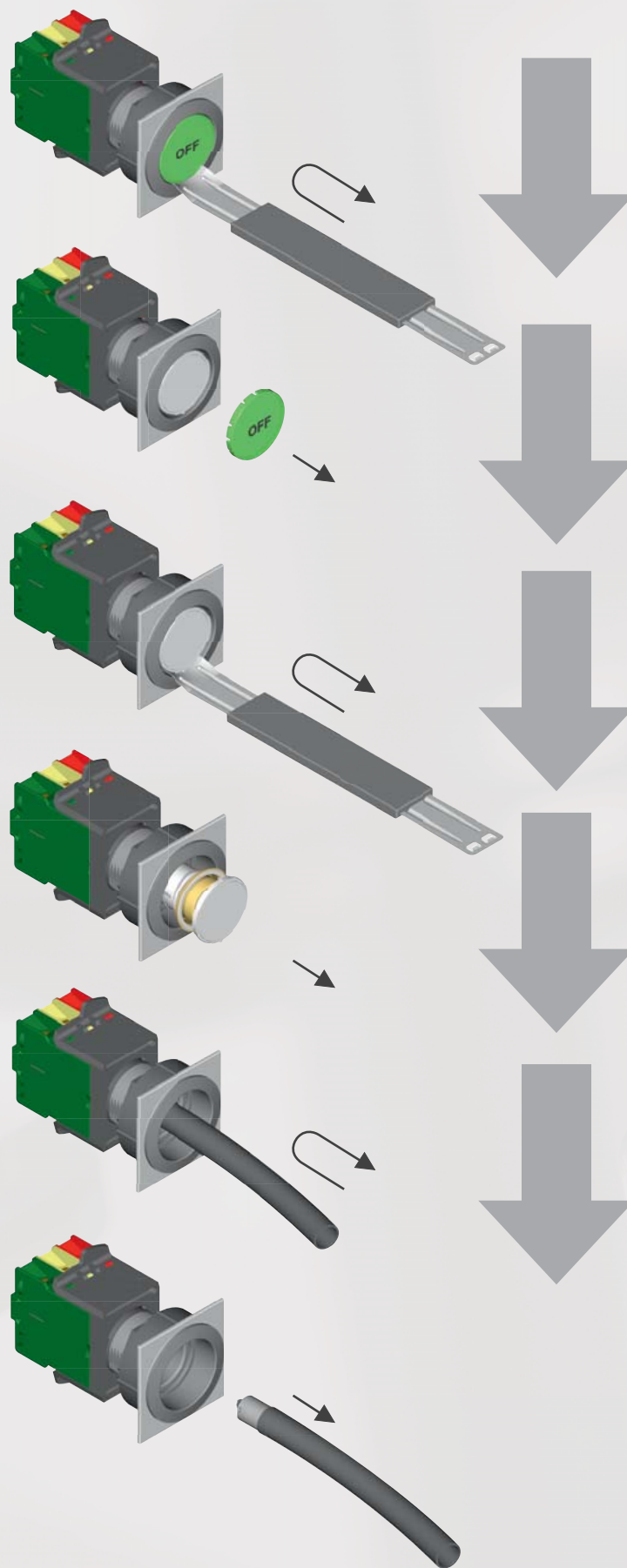


* ETR2 69mm, ETLR 58mm, ETLR2 78mm, EL9R 44mm

Cutout Dimensions



Mounting and Service Instructions



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KOMBITAST-R-JUWEL

Ø 30.5 mm

made in germany



Pushbutton Heads

Lenses and nameplates to be ordered separately

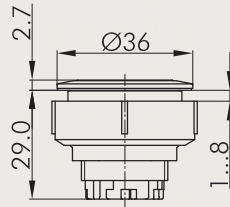
tested down to -40°F / -40°C

Illustration

Dimensions

Description

Type



Pushbutton Head, silver-coloured

suitable contact blocks

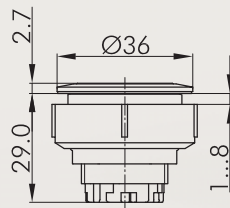


front bezel

silver-coloured



KRJMT



Pushbutton Head, charcoal

suitable contact blocks

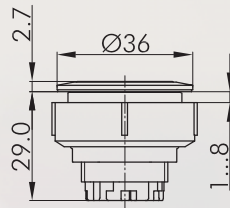


front bezel

charcoal



KRJT



Pushbutton Head, stainless steel

suitable contact blocks



front bezel

stainless steel, polished



KRJVAT



Flat Lens, transparent

colour

blue



T30FBL

yellow



T30FGB

green



T30FGN

clear



T30FKL

red



T30FRT

opalwhite



T30FWS



Flat lens, non-transparent

colour

blue



T30FGBL

yellow



T30FGGB

green



T30FGGN

white



T30FGWS

black



T30FGSW

red



T30FGRT



Convex Lens, transparent

colour

blue



T30DBL

yellow



T30DGB

green



T30DGN

clear



T30DKL

red



T30DRT

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






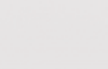








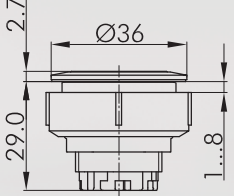











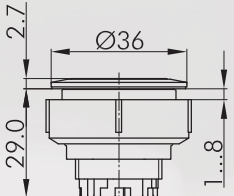











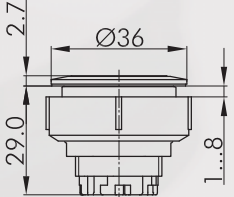











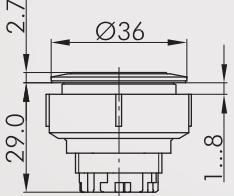






Pedal Switches

Limit Switches

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Pushbutton Heads

tested down to -40°F / -40°C

Illustration	Dimensions	Description	Type
		High Lens, transparent colour blue  yellow  green  clear  red 	T30HBL T30HGB T30HGN T30HKL T30HRT
		Nameplate with standard imprint please specify index number(see nameplates from page 410 of main catalogue)	BSKJ...
		Nameplate with special imprint according to customer's specification	BSKJB
		Blank Nameplate	BSKJU
    		Pushbutton Head with ring illumination silver-coloured incl. lens, inscription on request suitable contact blocks      front bezel silver-coloured 	KRJMTLR
    		Pushbutton Head with ring illumination, stainless steel incl. lens, inscription on request suitable contact blocks      front bezel stainless steel, polished 	KRJVATLR
    		Pushbutton Head with ring illumination and laser printing, silver-coloured incl. lens, with laser printing, standard symbols see nameplates from page 410 of main catalogue (please specify index number), special inscription on request suitable contact blocks      front bezel silver-coloured 	KRJMTLRL...
    		Pushbutton Head with ring illumination and laser printing, stainless steel incl. lens, with laser printing, standard symbols see nameplates from page 410 of main catalogue (please specify index number), special inscription on request suitable contact blocks      front bezel stainless steel, polished 	KRJVATLRL...

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KOMBITAST-R-JUWEL

Ø 30.5 mm

made in germany



Pushbutton Heads

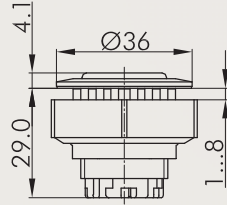
tested down to -40°F / -40°C

Illustration

Dimensions

Description

Type



Membrane Pushbutton Head, silver-coloured

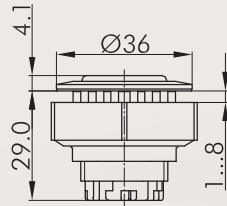
with fully closed, transparent silicone cap, down to -50° C

suitable contact blocks



front bezel silver-coloured

KRJMTM



Membrane Pushbutton Head

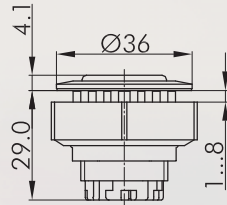
with fully closed, transparent silicone cap, down to -50° C

suitable contact blocks



front bezel charcoal

KRJTM



Membrane Pushbutton Head, stainless steel

with fully closed, transparent silicone cap, down to -50° C

suitable contact blocks



front bezel stainless steel, polished

KRJVATM



Flat Lens, transparent

colour

blue



T20FBL

yellow



T20FGB

green



T20FGN

clear



T20FKL

red



T20FRT

opalwhite



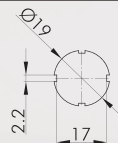
T20FWS



Nameplate with standard imprint

Please specify index number (see nameplates from page 410 of main catalogue)

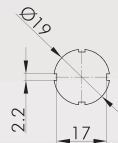
BSRX...



Nameplate with special imprint

according to customer's specification

BSRXB



Blank Nameplate

BSRXU

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Emergency Stops
tested down to -40°F / -40°C

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Illustration	Dimensions	Description	Type
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IP65




Emergency-stop Head

foolproof Yes
switching position indicator Yes
anti-lock collar Yes
release twist right or left
Standard EN 60947-5-1, EN 60947-5-5, EN 60068, EN ISO 13850

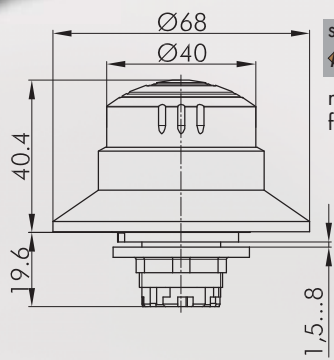


suitable contact blocks
AS DS DT ET M


mushroom head red
front bezel yellow



KRBUV70




IP65




Emergency-stop Head

foolproof Yes
switching position indicator Yes
anti-lock collar No
release twist right or left
Standard EN 60947-5-1, EN 60947-5-5, EN 60068, EN ISO 13850

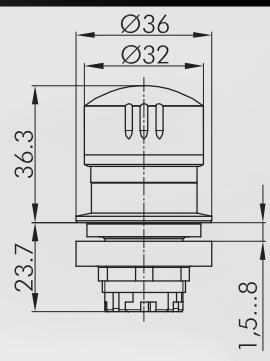


suitable contact blocks
AS DS DT ET M


mushroom head red
front bezel yellow



KRJUV




IP65



Emergency-stop Head


consisting of QRBUV and adapter

foolproof Yes
switching position indicator Yes
anti-lock collar Yes
release twist right or left

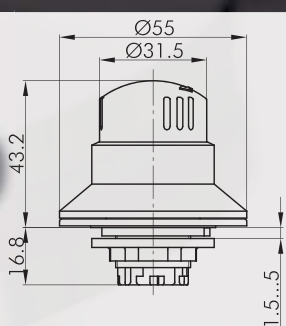


suitable contact blocks
AS DS DT ET M

mushroom head red
front bezel yellow



KRBUV



KOMBITAST-R-JUWEL

made in germany



Ø 30.5 mm

Emergency Stops

tested down to -40°F / -40°C

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Illustration

Dimensions

Description

Type

IP65



Emergency-stop Head

consisting of QRBUVSE and adapter

foolproof Yes
 switching position indicator Yes
 anti-lock collar Yes
 release key release

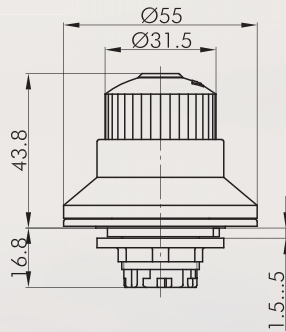
suitable contact blocks



mushroom head red
 front bezel yellow



KRBUVSE



For further emergency stops, please refer to the chapter "Emergency-stop Heads" starting on page 362 of main catalogue

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

Mushroom Heads

tested down to -40°F / -40°C

Illustration	Dimensions	Description	Type
		Latching Mushroom Head, silver-coloured foolproof No switching position indicator No anti-lock collar No release twist suitable contact blocks  mushroom head red front bezel silver-coloured	KRJMV
		Latching Mushroom Head, charcoal foolproof No switching position indicator No anti-lock collar No release twist suitable contact blocks  mushroom head red front bezel charcoal	KRJV
		Latching Mushroom Head, stainless steel foolproof No switching position indicator No anti-lock collar No release twist suitable contact blocks  mushroom head red front bezel stainless steel, polished	KRJVAV
		Mushroom Head, momentary, silver-coloured Other mushroom colours on request switching position indicator No anti-lock collar No suitable contact blocks  mushroom head red front bezel silver-coloured	KRJMS
		Mushroom Head, momentary, charcoal Other mushroom colours on request switching position indicator No anti-lock collar No suitable contact blocks  mushroom head red front bezel charcoal	KRJS
		Mushroom Head, momentary, stainless steel Other mushroom colours on request switching position indicator No anti-lock collar No suitable contact blocks  mushroom head red front bezel stainless steel, polished	KRJVAS

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KOMBITAST-R-JUWEL

made in germany



Ø 30.5 mm

Knob Set for rotary switches

tested down to -40°F/-40°C

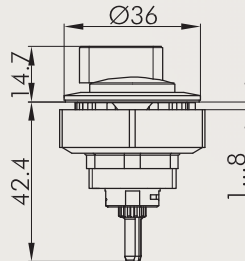
Illustration

Dimensions

Description

Type

IP65



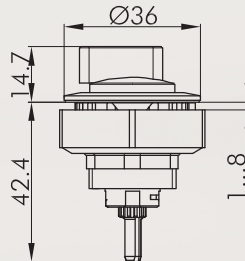
Knob Set for rotary switches Kraus & Naimer, silver-coloured

for Kraus & Naimer types CG4 and CA4
front bezel silver-coloured



KRJM_{DAU}

IP65



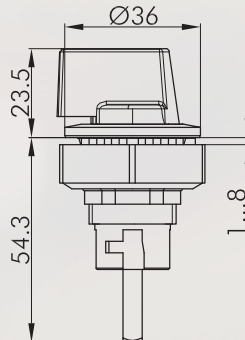
Knob Set for rotary switches Kraus & Naimer, charcoal

for Kraus & Naimer types CG4 and CA4
front bezel charcoal



KRJ_{DAU}

IP65



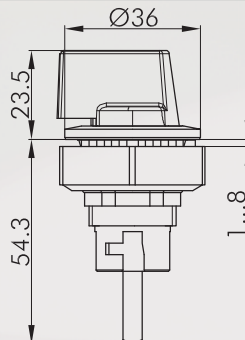
Knob Set for rotary switches for ELEKTRA Tailfingen, silver-coloured

front bezel silver-coloured



KRJ_{MDAU_ET}

IP65



Knob Set for rotary switches for ELEKTRA Tailfingen, charcoal

front bezel charcoal



KRJ_{DAU_ET}

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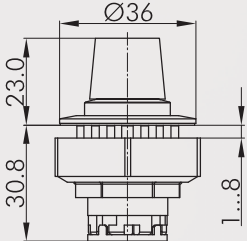


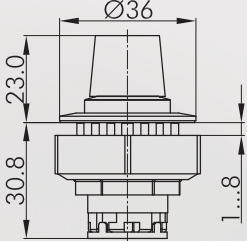


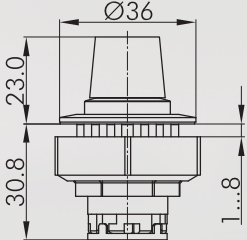

Pedal Switches

Limit Switches

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Knob Set for potentiometers

tested down to -40°F / -40°C

Illustration	Dimensions	Description	Type
<p>IP65</p> 		<p>Knob Set for potentiometers, silver-coloured for potentiometers of 6 mm shaft dia. and thread M10 x 0.75 Delivery without potentiometer Shaft length: approx. 50 mm ± 2 mm incl. fastening thread front bezel silver-coloured </p>	KRJMR
<p>IP65</p> 		<p>Knob Set for potentiometers, charcoal for potentiometers of 6 mm shaft dia. and thread M10 x 0.75 Delivery without potentiometer Shaft length: approx. 50 mm ± 2 mm incl. fastening thread front bezel charcoal </p>	KRJR
<p>IP65</p> 		<p>Knob Set for potentiometers, stainless steel for potentiometers of 6 mm shaft dia. and thread M10 x 0.75 Delivery without potentiometer Shaft length: approx. 50 mm ± 2 mm incl. fastening thread front bezel stainless steel, polished </p>	KRJVAR

KOMBITAST-R-JUWEL

Ø 30.5 mm

made in germany



Selector Switches (momentary/maintained)
tested down to -40°F / -40°C

I = Switching position
> = Spring return

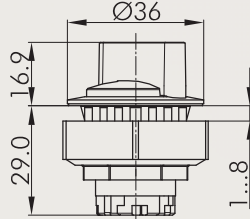
Illustration

Dimensions

Description

Type

IP65



Selector Head, maintained, silver-coloured

suitable contact blocks



front bezel silver-coloured

suitable contact blocks



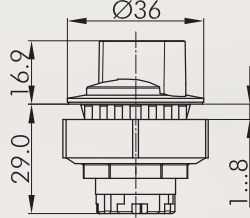
front bezel silver-coloured



KRJMWA

KRJMWB

IP65



Selector Head, momentary, silver-coloured

suitable contact blocks



front bezel silver-coloured

suitable contact blocks



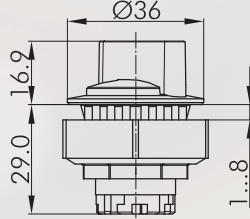
front bezel silver-coloured



KRJMSTA

KRJMSTB

IP65



Selector Head, left maintained, right momentary silver-coloured

suitable contact blocks

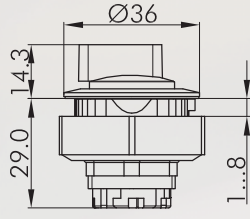


front bezel silver-coloured



KRJMWC

IP65



Illuminated Selector Head, maintained, silver-coloured

inclusive four small transparent colour plates in red, yellow, green and blue

suitable contact blocks



front bezel silver-coloured

suitable contact blocks



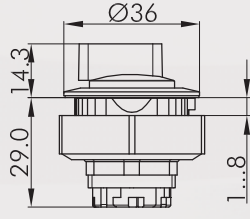
front bezel silver-coloured



KRJMWAL

KRJMWBL

IP65



Illuminated Selector Head, left maintained, right momentary, silver-coloured

suitable contact blocks



front bezel silver-coloured




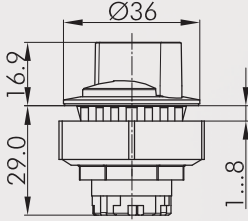



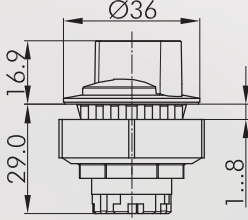



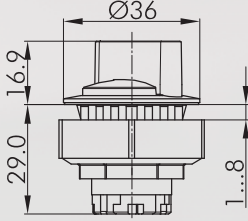


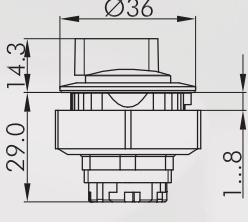



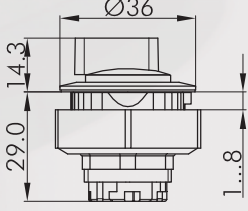

KRJMWCL

Selector Switches (momentary/maintained)

tested down to -40°F / -40°C

I = Switching position

> = Spring return

Illustration	Dimensions	Description	Type
		Selector Head, maintained, charcoal suitable contact blocks I DS DT EI M front bezel charcoal	 KRJWA
		suitable contact blocks I DT EI M front bezel charcoal	 KRJWB
		Selector Head, momentary, charcoal suitable contact blocks I DS DT EI M front bezel charcoal	 KRJSTA
		suitable contact blocks I DT EI M front bezel charcoal	 KRJSTB
		Selector Head, left maintained, right momentary, charcoal suitable contact blocks I DT EI M front bezel charcoal	 KRJWC
		Illuminated Selector Head, maintained, charcoal suitable contact blocks I DS DT EI M front bezel charcoal	 KRJWAL
		suitable contact blocks I DS DT EI M front bezel charcoal	 KRJWBL
		Selector Head, left maintained, right momentary, charcoal suitable contact blocks I DS DT EI M front bezel charcoal	 KRJWCL

KOMBITAST-R-JUWEL

made in germany



Ø 30.5 mm

Selector Switches (momentary/maintained)

made of stainless steel V4A (1.4404)

tested down to -40°F / -40°C

I = Switching position

> = Spring return

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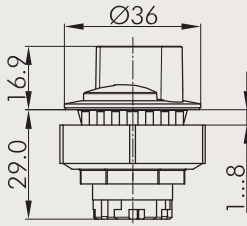

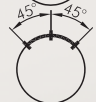



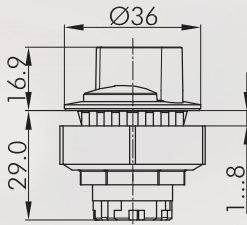
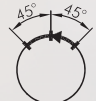

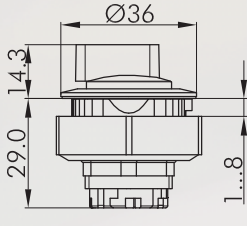



Enclosures

Terminal Blocks

Pedal Switches


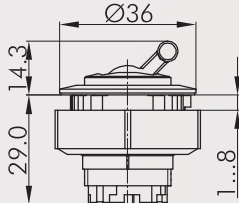



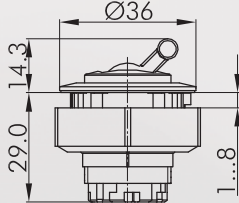



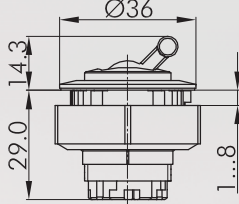


Limit Switches

Type Index

Illustration	Dimensions	Description	Type
		Selector Head, maintained, stainless steel suitable contact blocks DFA DS DT ET M front bezel stainless steel, polished suitable contact blocks DT ET M front bezel stainless steel, polished	 KRJVAWA  KRJVAWB
		Selector Head, momentary, stainless steel suitable contact blocks DFA DS DT ET M front bezel stainless steel, polished suitable contact blocks DT ET M front bezel stainless steel, polished	 KRJVASTA  KRJVASTB
		Selector Head, left maintained, right momentary stainless steel suitable contact blocks DT ET M front bezel stainless steel, polished	 KRJVAWC
		Illuminated Selector Head, maintained stainless steel suitable contact blocks DS DT ET M front bezel stainless steel, polished suitable contact blocks DS DT ET M front bezel stainless steel, polished	 KRJVAWAL  KRJVAWBL
		Selector Head, left maintained, right momentary stainless steel suitable contact blocks DS DT ET M front bezel stainless steel, polished	 KRJVAWCL

Toggle Heads

tested down to -40°F / -40°C

Illustration	Dimensions	Description	Type
		<p>Toggle Head, silver-coloured red toggle (other colours on request) suitable contact blocks </p> <p>front bezel silver-coloured </p>	KRJMK
		<p>Toggle head, charcoal red toggle (other colours on request) suitable contact blocks </p> <p>front bezel charcoal </p>	KRJJK
		<p>Toggle Head, stainless steel red toggle (other colours on request) suitable contact blocks </p> <p>front bezel stainless steel, polished </p>	KRJVAK

KOMBITAST-R-JUWEL

made in germany



Ø 30.5 mm

Key Switches (momentary/maintained)
tested down to -40°F / -40°C

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

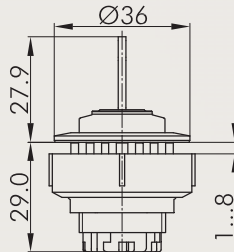
Illustration

Dimensions

Description

Type

IP65



Key actuator, maintained, silver-coloured

including two keys
other lock types on request

suitable contact blocks



front bezel silver-coloured



KRJMSSA12E

suitable contact blocks



front bezel silver-coloured



KRJMSSA13E

suitable contact blocks



front bezel silver-coloured



KRJMSSA14E

suitable contact blocks



front bezel silver-coloured



KRJMSSA15E

suitable contact blocks



front bezel silver-coloured



KRJMSSA17E

suitable contact blocks

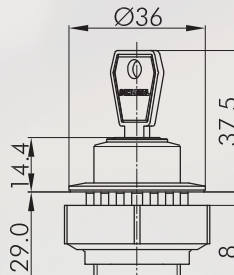


front bezel silver-coloured



KRJMSSA18E

IP65



Key actuator, momentary, silver-coloured

including two keys
other lock types on request

suitable contact blocks



front bezel silver-coloured



KRJMSSA23E

suitable contact blocks

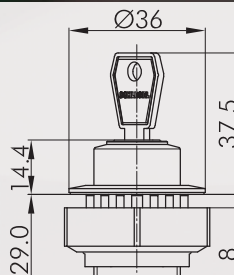


front bezel silver-coloured



KRJMSSA27E

IP65



Key actuator, left maintained, right momentary silver-coloured

including two keys
other lock types on request

suitable contact blocks



front bezel silver-coloured



KRJMSSA24E

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Key Switches (momentary/maintained)
tested down to -40°F / -40°C

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

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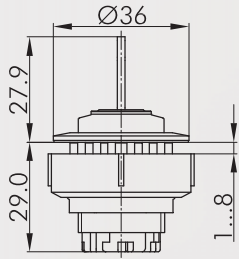

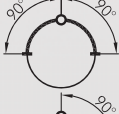
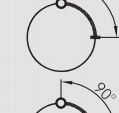
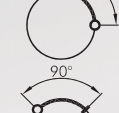

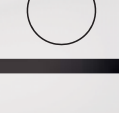

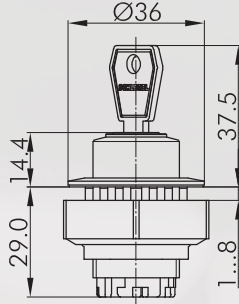


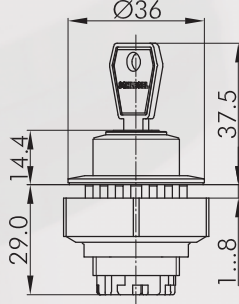

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Illustration	Dimensions	Description	Type	
		Key Actuator, maintained, charcoal including two keys other lock types on request suitable contact blocks DT ET M		
		front bezel charcoal		KRJSSA12E
		front bezel charcoal		KRJSSA13E
		front bezel charcoal		KRJSSA14E
		front bezel charcoal		KRJSSA15E
		front bezel charcoal		KRJSSA17E
		front bezel charcoal		KRJSSA18E
				Key Actuator, maintained, charcoal suitable contact blocks DT ET M
front bezel charcoal				
front bezel charcoal				KRJSSA27E
		Key Actuator, left maintained, right momentary charcoal suitable contact blocks DT ET M		KRJSSA24E
		front bezel charcoal		

KOMBITAST-R-JUWEL

Ø 30.5 mm

Key Switches (momentary/maintained)

made of stainless steel V4A (1.4404)

tested down to -40°F / -40°C

I = Switching position

> = Spring return

○ = Key removable position

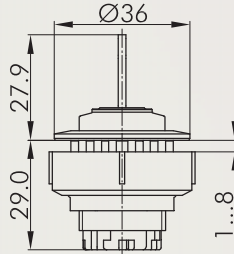
Illustration

Dimensions

Description

Type


IP65

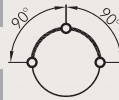


Key Actuator, maintained, stainless steel

suitable contact blocks




front bezel stainless steel, polished 

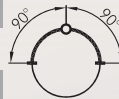


KRJVASSA12E

suitable contact blocks




front bezel stainless steel, polished 

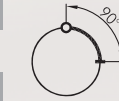


KRJVASSA13E

suitable contact blocks




front bezel stainless steel, polished 



KRJVASSA14E

suitable contact blocks




front bezel stainless steel, polished 



KRJVASSA15E

suitable contact blocks




front bezel stainless steel, polished 



KRJVASSA17E

suitable contact blocks

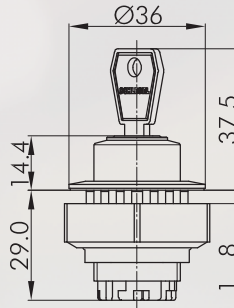


front bezel stainless steel, polished 



KRJVASSA18E


IP65



Key Actuator, momentary, stainless steel

suitable contact blocks




front bezel stainless steel, polished 



KRJVASSA23E

suitable contact blocks

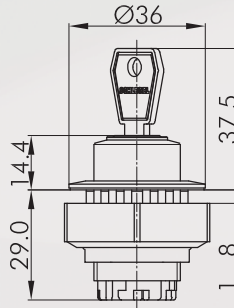


front bezel stainless steel, polished 



KRJVASSA27E


IP65



Key Actuator, left maintained, right momentary stainless steel

suitable contact blocks



front bezel stainless steel, polished 



KRJVASSA24E



Spare Key (standard)

standard spare key, specify key number for special locks

ESE845

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Illustration

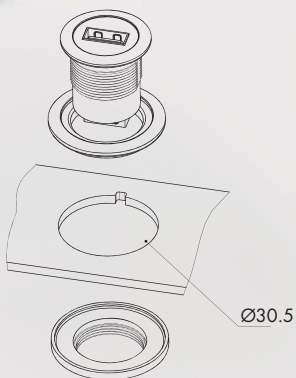
Dimensions

Description

Type



KRJ(X)22R



Ø30.5

Adapter for flush-mounted jacks

allows true-to-size mounting of all flush-mounted jacks of the Rontron-R-Juwel series into cut-outs of 30.5 mm dia. The jack is not included in delivery.

suitable jacks



colour

silver-coloured



KRJM22R



For panel mount jacks, please refer to page 113 of our main catalogue or to page 3 of the brochure "Panel-mount Jacks"

KOMBITAST-R-JUWEL

made in germany



Ø 30.5 mm

Pilot Lights

Lenses and nameplates to be ordered separately

tested down to -40°F / -40°C

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Illustration	Dimensions	Description	Type
		Pilot Light Head, silver-coloured suitable lampholders front bezel silver-coloured	KRJMN
		Pilot Light Head, charcoal suitable lampholders front bezel charcoal	KRJN
		Pilot Light Head, stainless steel suitable contact blocks front bezel stainless steel, polished	KRJVAN
		Convex Lens colour	blue K30DBL yellow K30DGB green K30DGN clear K30DKL red K30DRT opalwhite K30DWS
		Nameplate with standard imprint please specify index number(see nameplates from page 410 of main catalogue)	BSKJ...
		Nameplate with special imprint according to customer's specification	BSKJB
		Blank Nameplate	BSKJU

Pilot Lights

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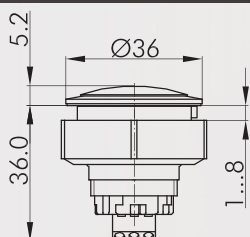
Illustration

Dimensions

Description

Type

IP65



Two-colour LED Pilot Light 24V silver-coloured

Operating temperature: -25°C ... 60°C
 Rated voltage: 24V DC
 Rated current: max. 10mA per LED
 Insulation voltage: 0.5kV
 Insulation resistance: ≥ 2MΩ
 Connection: screw terminals 3x1mm²

Pin assignment

Pin 1: red
 Pin 2: GND
 Pin 3: green

other colours on request

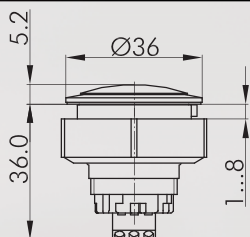
incl. lens and nameplate

LED colour red/green
 front bezel silver-coloured



KRJML_24R_G

IP65



Two-colour LED Pilot Light 24V charcoal

Operating temperature: -25°C ... 60°C
 Rated voltage: 24V DC
 Rated current: max. 10mA per LED
 Insulation voltage: 0.5kV
 Insulation resistance: ≥ 2MΩ
 Connection: screw terminals 3x1mm²

Pin assignment

Pin 1: red
 Pin 2: GND
 Pin 3: green

other colours on request

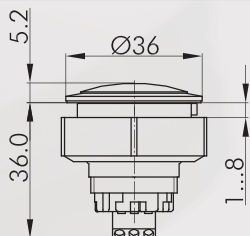
incl. lens and nameplate

LED colour red/green
 front bezel charcoal



KRJL_24R_G

IP65



Two-colour LED Pilot Light 24V stainless steel

Operating temperature: -25°C ... 60°C
 Rated voltage: 24V DC
 Rated current: max. 10mA per LED
 Insulation voltage: 0.5kV
 Insulation resistance: ≥ 2MΩ
 Connection: screw connection 3x1mm²

Pin Assignment

Pin 1: red
 Pin 2: GND
 Pin 3: green

other colours on request

incl. lens and nameplate

LED colour red/green
 front bezel stainless steel, polished



KRJVAL_24R_G

Ø 30.5 mm

Pilot Lights

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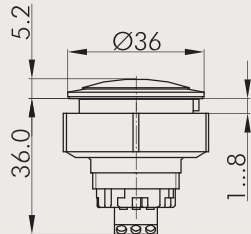
Type Index

Illustration

Dimensions

Description

Type



Two-colour LED Pilot Light 230V silver-coloured

Operating temperature: -25°C ... 55°C
 Rated voltage: 230V AC / 50 ... 60Hz
 Rated current: max. 4mA per LED
 Insulation voltage: 2.5kV
 Insulation resistance: ≥ 2MΩm
 Connection: screw terminals 3x1mm²

Pin assignment

Pin 1: red
 Pin 2: GND
 Pin 3: green

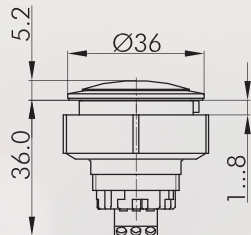
other colours on request

incl. lens and nameplate

LED colour red/green
 front bezel silver-coloured



KRJML_230R_G



Two-colour LED Pilot Light 230V charcoal

Operating temperature: -25°C ... 55°C
 Rated voltage: 230V AC / 50 ... 60Hz
 Rated current: max. 4mA per LED
 Insulation voltage: 2.5kV
 Insulation resistance: ≥ 2MΩm
 Connection: screw terminals 3x1mm²

Pin assignment

Pin 1: red
 Pin 2: GND
 Pin 3: green

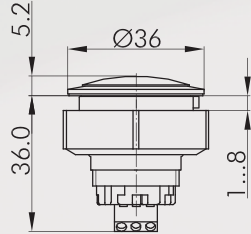
other colours on request

incl. lens and nameplate

LED colour red/green
 front bezel charcoal



KRJL_230R_G



Two-colour LED Pilot Light 230V stainless steel

Operating temperature: -25°C ... 55°C
 Rated voltage: 230V AC / 50 ... 60Hz
 Rated current: max. 4mA per LED
 Insulation voltage: 2.5kV
 Insulation resistance: ≥ 2MΩm
 Connection: screw connection 3x1mm²

Pin Assignment

Pin 1: red
 Pin 2: GND
 Pin 3: green

other colours on request



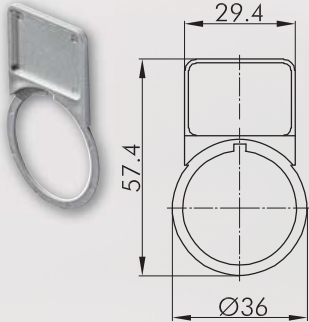

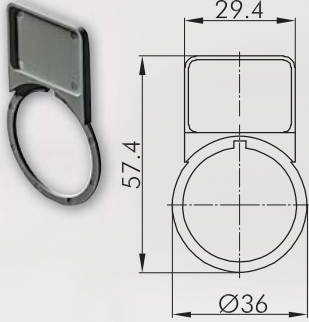






incl. lens and nameplate

LED colour red/green
 front bezel stainless steel, polished



KRJVAL_230R_G

Accessories for Actuators

Illustration	Dimensions	Description	Type
		Mounting Tool with torque limitation for the series QUARTEX-R(-JUWEL), KOMBITAST-R-JUWEL, RONDEX, RONDEX-M, RVA, DUX-Basic, SHORTRON, jacks of the RONTRON-R/-Q-JUWEL series	S22
		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 KOMBITAST-R-JUWEL series, accepts self-adhesive nameplates colour silver-coloured	 KRJMABT
		External Nameplate Holder for outside marking of the actuators of the KOMBITAST-R-JUWEL series, accepts self-adhesive nameplates colour charcoal	 KRJABT
		Self-adhesive Nameplate, laser-printed Inscription according to customer's specification Dimensions: 19 x 27 mm	BZ23G
		Self-adhesive Nameplate blank Dimensions: 19 x 27 mm	BZ23U
		Self-adhesive Nameplate with standard imprint Please specify index no. (see nameplates from page 410 of main catalogue) Dimensions: 19 x 27 mm	BZ23B...
		Yellow Nameplate self-adhesive PVC foil printing on request outer dia. 75 mm for mounting dia. 30,5 mm colour yellow	 NAS_30

KOMBITAST-R-JUWEL

Ø 30.5 mm

made in germany



Accessories for Actuators

Illustration

Dimensions

Description

Type



Yellow Nameplate with quadrilingual imprint

self-adhesive PVC foil
outer dia. 75 mm
for mounting dia. 30,5 mm
colour yellow



NAS_30_548



Lead-sealable Protective Lid for pushbutton KRJMT(LR)/KRJT/KRJVAT(LR)

colour transparent



KDKRT



Lead-sealable Protective Lid for selector switches KRJMWAW/KRJWAW/KRJVAWA

colour transparent



KDKRWA



Lead-sealable Protective Lid for selector switches KRJMWBA/KRJWBA/KRJVAWA

colour transparent



KDKRWB



Lamp Remover

for incandescent lamps FZR9...

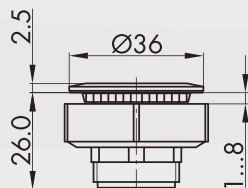
LZ8



Universal Lens Remover

USK

IP65



Dummy, silver-coloured

to close unused mounting apertures
colour silver-coloured



BVKRJM

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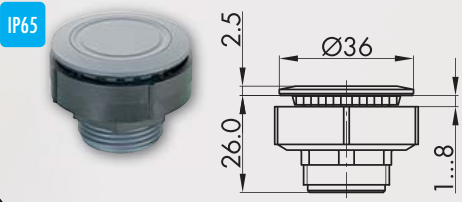
Terminal Blocks

Pedal Switches

Limit Switches

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Accessories for Actuators

Illustration	Dimensions	Description	Type
		<p>Dummy, charcoal to close unused mounting apertures</p> <p>colour charcoal</p>	<p>BVKRJ</p>

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Front dimensions: \varnothing 28 mm
Panel cut-out: \varnothing 22.3 mm
Front bezel height: 2 mm
Travel: 2.3 mm



SHORTTRON


Overview / Housing Colours / Symbol Definition - SHORTRON series





01 Pushbuttons Tactile Pushbuttons	page 40/62 page 44/66	04 Selector Switches	page 53/73
02 Piezoelectric / Capacitive Pushbuttons	page 49	05 Key Switches	page 57/77
03 Emergency-stop Buttons	page 51/71	06 Buzzers	page 59/79
		07 Pilot Lights	page 60/80

Housing Colour (silver-coloured, black, polished stainless steel)

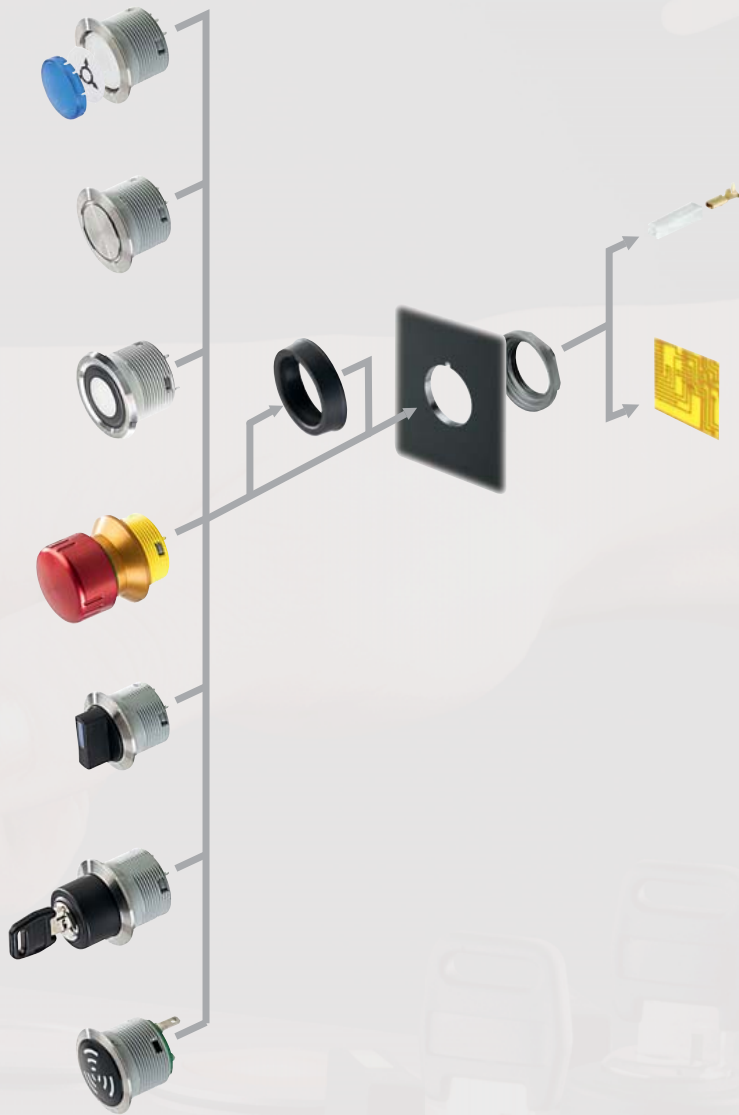


 IP65 degree of protection

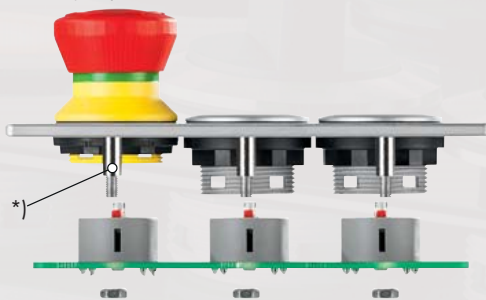
 2.3mm operating travel

 illuminating option

 labelling option

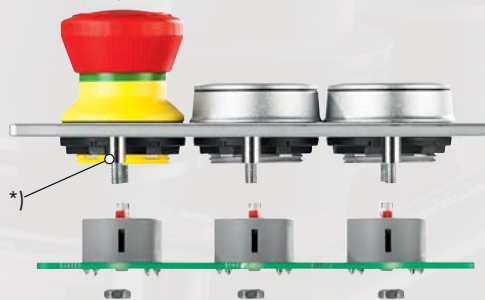


base-plate mounting
mounting depth 16.0 mm



*) spacer sleeves required (length see mounting depth dimensions)

base-plate mounting using a spacer ring SDR/SDRSW
mounting depth 9.0 mm



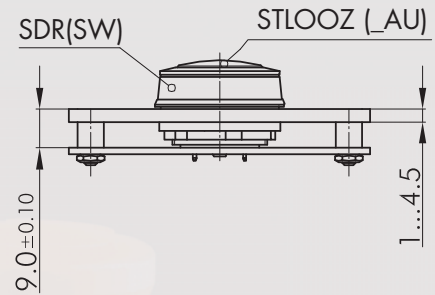
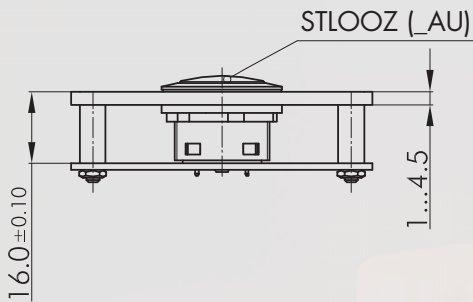
front-panel mounting, PCB-mount terminals



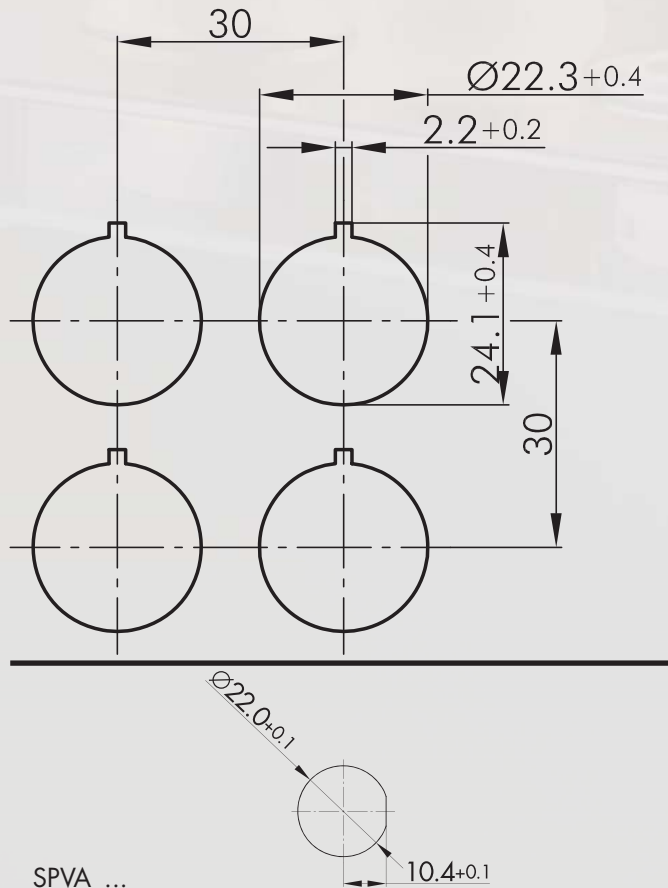
front-panel mounting, Faston terminals 2.8x0.8mm



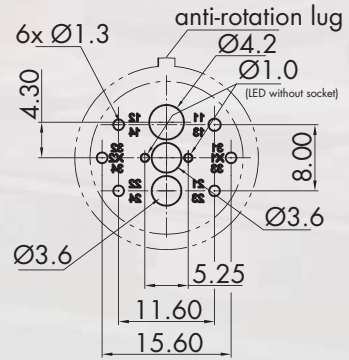
Mounting Depth Dimensions



Cutout Dimensions

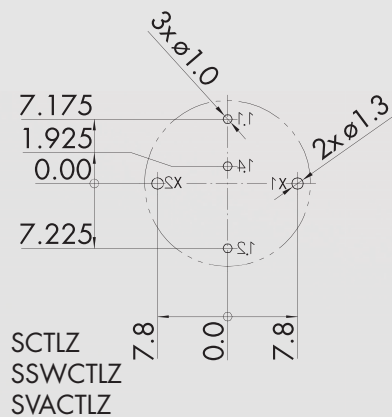


SPVA_...



Component side view

Contact assignment: see wiring scheme of the relevant types



SCTLZ
SSWCTLZ
SVACTLZ

General Data

Type reference:	S(VA)(SW)(T)(TLR)(WA)(WB)(SSA...)(N)(STA)(STB)(L)(I)(II)(O)(OO)(OI)(P)(Z)(LAU)
Description:	Short-stroke Pushbutton with integrated contact block, flat/high version, with Faston or PCB-mount terminals, available for front-panel or base-plate mounting CCC, CE, ENEC10, VDE, CE
Approvals:	2NC / 1NC+1NO / 2 NO / 1NO / 1NC
Nature of contact:	IP65 / IP67 (T, TLR, N)
Degree of protection:	IP65 (SSA, STA, STB, WA, WB)
Operation travel:	2.3 mm
Connection type:	Faston terminals 2.8x0.8 mm / PCB-mount terminals
Max. storage temperature:	-40°C ... 80°C
Max. operating temperature:	-25°C ... 70°C
Mechanical life:	1 m switching cycles (T, TLR) 30,000 (WA, WB, STA)
Electrical life (rated load):	1 m switching cycles (T, TLR) 30,000 (WA, WB, STA)
Contact resistance NO:	< 20 mOhm
Contact resistance NC:	< 20 mOhm
Min. current:	1 mA (under laboratory conditions)
Min. voltage:	5 V
Bouncing time NO:	< 10 ms
Bouncing time NC:	< 10 ms
Positive opening contact:	acc. to EN60947-5-1, appendix. K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

Utilisation category:	alternate current AC15 B300	direct current DC13 Q300
Rated insulation voltage Ui:	250 V	250 V
Rated operating voltage Ue:	240V / 120V	250V / 125V / 60V / 24V
Rated operating current Ie:	1.5A / 3A	0.27 A / 0.55 A / 1 A / 2 A
Breaking capacity:	10Ie	1,1Ie
Continuous thermal current:	6 A	

Electrical data acc. to IEC/EN 61058-1 (VDE 0630 Sect. 1)

Rated voltage Ue:	250 V~
Rated current Ie:	6(4) A

Technical Data - Lamp

Lamp socket:	with integrated white 3 mm LED
Max. lamp voltage:	30 V AC/DC
Max. lamp output:	14mA (at 24 V DC)
Definition:	X1...anode, X2...cathode

Additional Data

Mounting aperture:	22.3mm
Tightening torque (mounting nut):	1.5 ... 1.9 Nm
Mounting position:	any
Standards:	EN 60947-5-1, EN 61058

Electrical Features - 5µm gold-plating, type addition ...AU

Operational voltage:	20mV ... 42V AC/DC
Switching current:	1mA ... 100mA
Contact resistance (new state):	< 50 mOhm

Note

T...pushbutton, TLR...pushbutton with ring illumination, N...pilot light
T...key-operated switch
STA, STB...momentary selector switch
WA, WB...maintained selector switch

Standard version with Faston terminals 2.8x0.8mm
(P)=with PCB-mount terminals (Z)=base-plate-mounted version with PCB-mount terminals

DC13: > 100,000 switching cycles

versions with Faston terminals: use partially or fully insulated Faston clamps
illuminated versions (24 V LED): overvoltage category II (2.5kV), pollution degree 2
versions with three contacts: overvoltage category II (2.5kV), pollution degree 2

This data sheet is not applicable for the types S..C..*(tactile versions of the Shortron range)

General Data

Type Reference:	S(VA)(SW)C(T)(TLR)(...)(L)(F)(Z)
Description:	Short-stroke Tactile Pushbutton with integrated contact block, flat/high version, with Faston or PCB-mount terminals, for panel or base-plate mounting CCC, CE, ENEC10, VDE, CE
Approvals:	1 inverter
Nature of contact:	IP65 / IP67
Degree of protection:	2.3 mm
Operation travel:	Faston terminals 2.8x0.8 mm / PCB-mount terminals
Connection type:	-40°C ... 80°C
Max. storage temperature:	-25°C ... 70°C
Max. operating temperature:	1 m switching cycles
Mechanical life:	1m operations
Electrical life (rated load):	< 50 mOhm (new state)
Contact resistance NO:	< 100 mOhm (new state)
Contact resistance NC:	< 10 ms
Bouncing time NO:	< 10 ms
Bouncing time NC:	< 10 ms

Technical Data - Lamp

Lamp socket:	with integrated white 3 mm LED
Max. lamp voltage:	30 V AC/DC
Max. lamp output:	14mA (at 24 V DC)
Definition:	X1...anode, X2...cathode

Additional Data

Mounting aperture:	22.3mm
Tightening torque (mounting nut):	1.5 ... 1.9 Nm
Mounting position:	any
Standards:	EN 61058-1

Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

Note

Standard version with PCB-mount terminals
(F)= with Faston terminals 2.8x0.8mm (Z)=base-plate-mounted version with PCB-mount terminals

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category:	AC12	DC12
Rated insulation voltage Ui:	60V	60V
Rated operating voltage Ue:	48V	48V
Rated operating current Ie:	0.1A	0.1A
Continuous thermal current:	100mA	100mA

Remark

GB14048.5-2008 (IEC60947-5-1)

General Data

Type Reference:	SVACFT(L)(X)(F)(P)(Z)
Description:	Single Membrane Pushbutton with integrated contact block, with Faston or PCB-mount terminals, available for front-panel or base-plate mounting CE, DGUV_Test
Approvals:	1 inverter
Nature of contact:	IP65 / IP67
Degree of protection:	1.8 mm
Operation travel:	Faston terminals 2.8x0.8 mm / PCB-mount terminals
Connection type:	-40°C ... 80°C
Max. storage temperature:	-25°C ... 70°C
Max. operating temperature:	1 m switching cycles (20°C)
Mechanical life:	< 50 mOhm (new state)
Contact resistance NO:	< 100 mOhm (new state)
Contact resistance NC:	< 10 ms
Bouncing time NO:	< 10 ms
Bouncing time NC:	

Technical Data - Lamp

Lamp socket:	with integrated white 3 mm LED
Max. lamp voltage:	30 V AC/DC
Max. lamp output:	14mA (at 24 V DC)
Definition:	X1...anode, X2...cathode

Additional Data

Mounting aperture:	22.3mm
Tightening torque (mounting nut):	1.5 ... 1.9 Nm
Mounting position:	any
Standards:	EN 61058-1

Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

Note

SVACFT(L)(X)(F)(P)(Z) ()...optional
(L) = illuminating option
(X) = foil ring colours: standard=black (W=white, R=red, Y=yellow, G=green, B=blue)
(F) = with Faston terminals 2.8x0.8mm
(P) = with PCB-mount terminals
(Z) = base-plate mounted version with PCB-mount terminals

General Data

Type Reference:	FRVKAL(O)(OO)(OOO)(OI)(OOI)(OII)(P)(_AU)
Description:	Emergency Stop, aluminium housing, fool-proof
Approvals:	CE, TÜV_Süd, UR
Nature of contact:	1NC / 2NC / 3 NC / 1 NC+1NO / 2NC+1NO / 1NC+2NO
Degree of protection:	IP66 / IP67
Connection type:	Faston terminals 2.8x0.8 mm / PCB-mount terminals
Contact material:	AgNi / AgNi, gold-plated 5µm
Max. storage temperature:	-40°C ... 80°C
Max. operating temperature:	-25°C ... 70°C
Mechanical life:	50,000
Electrical life (rated load):	50,000 at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 50 mOhm (new state)
Bouncing time NO:	< 10 ms
Bouncing time NC:	< 10 ms
Positive opening contact:	acc. to EN60947-5-1, appendix. K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

Utilisation category:	alternate current	direct current
Rated insulation voltage Ui:	AC15 B300	DC13 Q300
Rated operating voltage Ue:	250 V	250 V
Rated operating current Ie:	240V / 120V	250V / 125V / 60V / 24V
Breaking capacity:	1.5A / 3A	0.27 A / 0.55 A / 1 A / 2 A
Continuous thermal current:	10Ie	1,1Ie
	5A	

Additional Data

Mounting aperture:	22.3mm
Tightening torque (mounting nut):	1.3 ... 1.9 Nm
Release:	twist release, left or right
Mounting position:	any
Standards:	EN 60947-5-1, EN 60947-5-5, EN 60068, EN ISO 13850
Pollution degree :	3

Reliability Data

Ld:	20% (NC)
B10d:	250.000

Note

with switching position indicator

Electrical Features - 5µm gold-plating (type addition ...AU)	
Switching voltage	20mV ... 42V AC/DC
Switching current	1mA ... 250mA

For the version with Faston terminals use partially or fully insulated Faston clamps.
Version with 3 contacts: overvoltage category II (2.5 kV), pollution degree 2

Data acc. to UL508

Ratings:	silver: B300, 24Vdc/3A gold: 24Vdc/100mA
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General Data

Type reference:	FRVK(P)(L)(O)(OO)(OOO)(OI)(OOI)(OII)(P)(_AU)
Description:	Emergency Stop, fool-proof
Approvals:	CCC, CE, TÜV_Süd, UR
Nature of contact:	1NC / 2NC / 3 NC / 1 NC+1NO / 2NC+1NO / 1NC+2NO
Degree of protection:	IP66 / IP67
Connection type:	Faston terminals 2.8x0.8 mm / PCB-mount terminals
Contact material:	AgNi / AgNi, gold-plated 5µm
Max. storage temperature:	-40°C ... 80°C
Max. operating temperature:	-25°C ... 70°C
Mechanical life:	50,000
Electrical life (rated load):	50,000 at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 50 mOhm (new state)
Bouncing time NO:	< 10 ms
Bouncing time NC:	< 10 ms
Positive opening contact:	acc. to EN60947-5-1, appendix. K

Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

Utilisation category:	alternate current	direct current
Rated insulation voltage Ui:	AC15 B300	DC13 Q300
Rated operating voltage Ue:	250 V	250 V
Rated operating current Ie:	240V / 120V	250V / 125V / 60V / 24V
Breaking capacity:	1.5A / 3A	0.27 A / 0.55 A / 1 A / 2 A
Continuous thermal current:	10Ie	1,1Ie
	5A	

Technical Data - Lamp

Lamp socket:	none, with integrated 3 mm LED
Max. lamp voltage:	30 V AC/DC
Max. lamp output:	4 mA at 24 V DC)
Definition:	X1...anode, X2...cathode

Additional Data

Mounting aperture:	22.3mm
Tightening torque (mounting nut):	1.3 ... 1.9 Nm
Release:	twist release, left or right
Mounting position:	any
Standards:	EN 60947-5-1, EN 60947-5-5, EN 60068, EN ISO 13850
Ld:	20% (NC)
B10d:	250.000
Pollution degree :	3

Note

with switching position indicator

Electrical Features - 5µm gold-plating (type addition ...AU)	
Switching voltage	20mV ... 42V AC/DC
Switching current	1mA ... 250mA

For the version with Faston terminals use partially or fully insulated Faston clamps.
Illuminated version (24V-LED): overvoltage category II (2.5kV), pollution degree 2
Version with 3 contacts: overvoltage category II (2.5 kV), pollution degree 2

FRVKP...	emergency stop for hygienic areas
Approvals:	CE, DGUV-Test
Mechanical life:	20,000 (20°C)
	>6050 (-25°C)
	>6050 (+70°C)
	-40°C ... 80°C
Max. Storage temperature:	
Max. operating temperature:	tbd: -25°C ... 70°C
B10d/Ld:	tbd: 150,000/20% (20°C)

Test Data acc. to UL 508

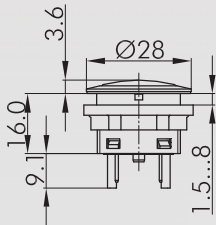
Rating contact block:	Silver: B300, 24V DC/3A
Gold: 42V DC/100mA	
Lamp rating:	

Pushbutton Heads

Lenses and nameplates to be ordered separately.
Type addition for gold-plated contacts *_AU* (e.g. STLOIZ_AU)

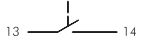



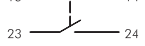
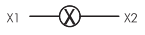



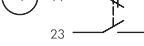
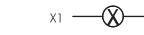






Illustration

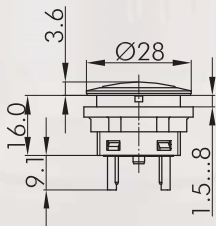
Dimensions



Illuminated Pushbutton

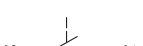


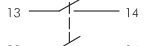

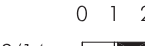


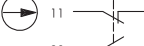

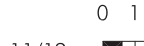





incl. white LED
Faston terminals 2.8x0.8 mm

	   13/14 	   0 1 2 13/14  23/24 	   0 1 2 11/12  23/24 
<i>front bezel</i>	1NO	2NO	1NC + 1NO
silver-coloured 	STLI	STLII	STLOI
black 	SSWTLI	SSWTLII	SSWTLOI
stainless steel, polished 	SVATLI	SVATLII	SVATLOI



Pushbutton

Faston terminals 2.8x0.8 mm

	  13/14 	   0 1 2 13/14  23/24 	   0 1 2 11/12  23/24 
<i>front bezel</i>	1NO	2NO	1NC + 1NO
silver-coloured 	STI	STII	STOI
black 	SSWTI	SSWTII	SSWTOI
stainless steel, polished 	SVATI	SVATII	SVATOI

Pushbutton Heads

Lenses and nameplates to be ordered separately.

Illustration

Dimensions



Domed Lens, transparent

colour	blue		T22DRRBL
	yellow		T22DRRGB
	green		T22DRRGN
	clear		T22DRRKL
	red		T22DRRRT
	opalwhite		T22DRRWS



Flat Lens, transparent

colour	blue		T22RRBL
	yellow		T22RRGB
	green		T22RRGN
	clear		T22RRKL
	red		T22RRRT
	opalwhite		T22RRWS



High Lens, transparent

colour	blue		T22HRRBL
	yellow		T22HRRGB
	green		T22HRRGN
	clear		T22HRRKL
	red		T22HRRRT
	opalwhite		T22HRRWS



Flat Lens, non-transparent

colour	blue		T22RRGBL
	yellow		T22RRGGB
	green		T22RRGGN
	black		T22RRGSW
	red		T22RRGRT
	white		T22RRGWS



Blank Nameplate

BSRRU



Nameplate with standard imprint

Please specify index number (see nameplates from page 410 of main catalogue)

BSRR...

Nameplate with special imprint

according to customer's specification

BSRRB

About Us

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Panel Mount Jacks

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Enclosures

Terminal Blocks

Pedal Switches

Limit Switches

Type Index

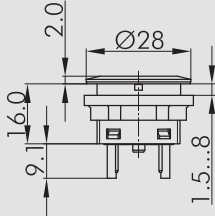
→ Actuators

Pushbutton Heads

Type addition for gold-plated version _AU (e. g. STLRWOI_AU)

Illustration

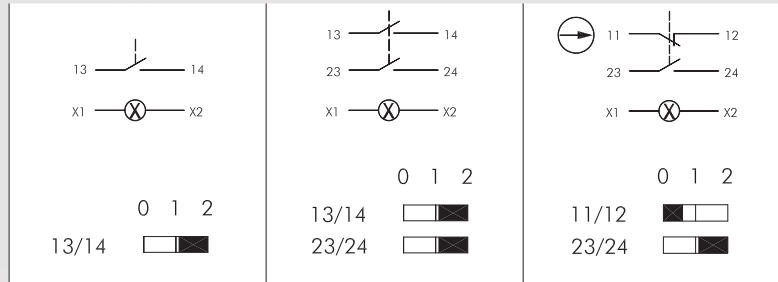
Dimensions



Pushbutton with ring illumination

incl. lens and white LED

Faston terminals 2.8x0.8 mm



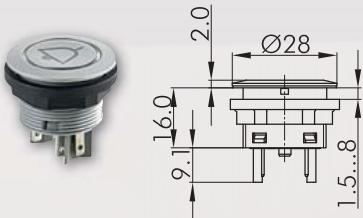
front bezel	illuminated ring	1NO	2NO	1NC + 1NO
silver-coloured	white	STLRWI	STLRWII	STLRWOI
	red	STLRRI	STLRRII	STLRROI
	green	STLRGI	STLRGII	STLRGOI
	yellow	STLRYI	STLRYII	STLRYOI
	blue	STLRBI	STLRBII	STLRBOI
black	white	SSWTLRWI	SSWTLRWII	SSWTLRWOI
	red	SSWTLRRI	SSWTLRRII	SSWTLRROI
	green	SSWTLRGI	SSWTLRGII	SSWTLRGOI
	yellow	SSWTLRYI	SSWTLRYII	SSWTLRYOI
	blue	SSWTLRBI	SSWTLRBII	SSWTLRBOI
stainless steel, polished	white	SVATLRWI	SVATLRWII	SVATLRWOI
	red	SVATLRRI	SVATLRRII	SVATLRROI
	green	SVATLRGI	SVATLRGII	SVATLRGOI
	yellow	SVATLRYI	SVATLRYII	SVATLRYOI
	blue	SVATLRBI	SVATLRBII	SVATLRBOI

Pushbutton Heads

Type addition for gold-plated version _AU (e. g. STLRWOI..._AU)

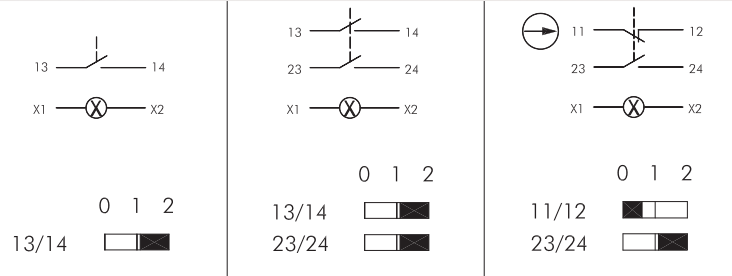
Illustration

Dimensions



Pushbutton with ring illumination and inscription

incl. lens and white LED,
standard imprints see nameplates from page 410 of main catalogue (please specify index no.),
special inscription on request
Faston terminals 2.8x0.8 mm



front bezel	illuminated ring	1NO	2NO	1NC + 1NO
silver-coloured	white	STLRWI...	STLRWII...	STLRWOI...
	red	STLRRI...	STLRRII...	STLRROI...
	green	STLRGI...	STLRGII...	STLRGOI...
	yellow	STLRYI...	STLRYII...	STLRYOI...
	blue	STLRBI...	STLRBII...	STLRBOI...
stainless steel, polished	white	SVATLRWI...	SVATLRWII...	SVATLRWOI...
	red	SVATLRRI...	SVATLRRII...	SVATLRROI...
	green	SVATLRGI...	SVATLRGII...	SVATLRGOI...
	yellow	SVATLRYI...	SVATLRYII...	SVATLRYOI...
	blue	SVATLRBI...	SVATLRBII...	SVATLRBOI...

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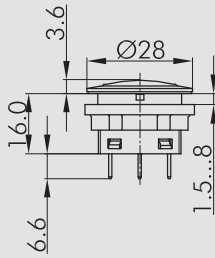
Limit Switches

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Pushbutton Heads

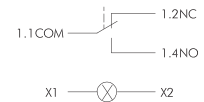
Illustration

Dimensions

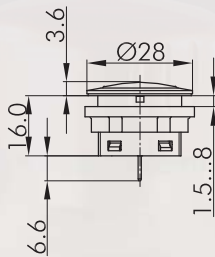


Tactile Pushbutton, illuminated

incl. white LED, gold-plated contacts
Faston terminals 2.8x0.8 mm

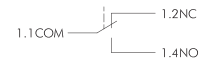


front bezel		1 inverter
silver-coloured		SCTLF
black		SSWCTLF
stainless steel, polished		SVACTLF



Tactile Pushbutton

gold-plated contacts
Faston terminals 2.8 mm



front bezel		1 inverter
silver-coloured		SCTF
black		SSWCTF
stainless steel, polished		SVACTF

Pushbutton Heads

Illustration

Dimensions



Domed Lens, transparent

colour	blue		T22DRRBL
	yellow		T22DRRGB
	green		T22DRRGN
	clear		T22DRRKL
	red		T22DRRRT
	opalwhite		T22DRRWS



Flat Lens, transparent

colour	blue		T22RRBL
	yellow		T22RRGB
	green		T22RRGN
	clear		T22RRKL
	red		T22RRRT
	opalwhite		T22RRWS



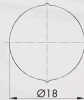
High Lens, transparent

colour	blue		T22HRRBL
	yellow		T22HRRGB
	green		T22HRRGN
	clear		T22HRRKL
	red		T22HRRRT
	opalwhite		T22HRRWS



Flat Lens, non-transparent

colour	blue		T22RRGBL
	yellow		T22RRGGB
	green		T22RRGGN
	black		T22RRGSW
	red		T22RRGRT
	white		T22RRGWS



Blank Nameplate

BSRRU



Nameplate with standard imprint

Please specify index number (see nameplates from page 410 of main catalogue)

BSRR...



Nameplate with special imprint

according to customer's specification

BSRRB

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Limit Switches

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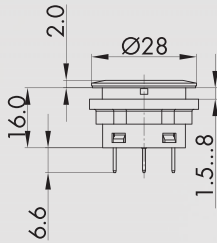
→ Actuators

Pushbutton Heads

Illustration

Dimensions

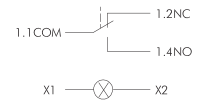
IP65
IP67



Tactile Pushbutton with ring illumination

incl. white LED, with gold-plated contacts

Faston terminals 2.8x0.8 mm

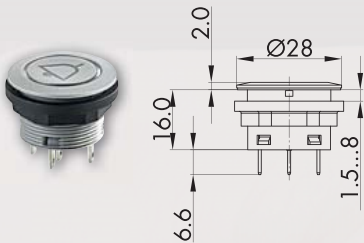


front bezel		illuminated ring		1 inverter
silver-coloured		white		SCTLRWF
		red		SCTLRRF
		green		SCTLRGF
		yellow		SCTLRYF
		blue		SCTLRBF
black		white		SSWCTLRWF
		red		SSWCTLRRF
		green		SSWCTLRGF
		yellow		SSWCTLRYF
		blue		SSWCTLRBF
stainless steel, polished		white		SVACTLRWF
		red		SVACTLRRF
		green		SVACTLRGF
		yellow		SVACTLRYF
		blue		SVACTLRBF

Pushbutton Heads

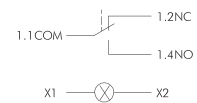
Illustration

Dimensions



Tactile Pushbutton with ring illumination and laser printing

incl. lens and white LED,
standard imprints see nameplates from page 410 of main
catalogue (please specify index no.),
special inscription on request
Faston terminals 2.8x0.8 mm



front bezel	illuminated ring	1 inverter
silver-coloured	white	SCTLRWF...
	red	SCTLRRF...
	green	SCTLRGF...
	yellow	SCTLRYF...
	blue	SCTLRBF...
stainless steel, polished	white	SVACTLRWF...
	red	SVACTLRRF...
	green	SVACTLRGF...
	yellow	SVACTLRYF...
	blue	SVACTLRBF...

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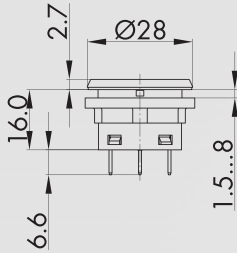
Limit Switches

Type Index

Membrane Pushbuttons

Illustration

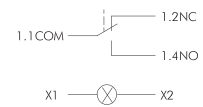
Dimensions



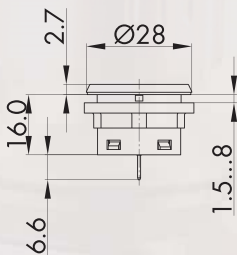
Illuminated Tactile Membrane Key made of stainless steel V4A

combining the advantages of a membrane keypad with the flexibility of conventional actuators, with blank nameplate. Standard inscription (from page 410 of main catalogue) or special imprints on request

incl. white LED
with gold-plated contacts
Faston terminals 2.8x0.8 mm



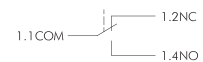
front bezel	1 inverter
stainless steel, polished	SVACFTLF



Tactile Membrane Key made of stainless steel V4A

combining the advantages of a membrane keypad with the flexibility of conventional actuators, with blank nameplate. Standard inscription (from page 410 of main catalogue) or special imprints on request

with gold-plated contacts
Faston terminals 2.8x0.8 mm



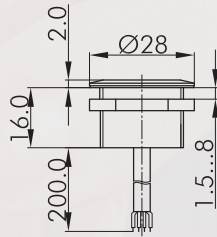
front bezel	1 inverter
stainless steel, polished	SVACFTF

Piezoelectric Pushbutton

Illustration

Dimensions

IP66
IP69K



Piezoelectric Pushbutton

Illumination: LED

Technical Data

Connection type: tin-plated connector cable, 200mm
 Illumination SPVA_...: LED
 Illumination SPVA_RG: LED, red: brown (+) / white (-)
 LED, green: grey (+) / white (-)
 white(-): common cathode

Storage and operating temperature: -40°C ... +85°C
 Operating force: 3...5N
 Pulse time: 300ms
 Life: > 10m

Electrical Data - Contact Element

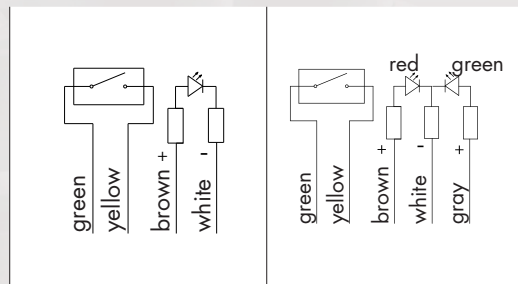
Operating voltage U_e: 0...24V AC/DC
 Operating current I_e: max. 1A
 Overvoltage protection: 34V DC
 Contact resistance: <1Ω (On) / >5MΩ (Off)
 Capacity: 100pF
 Short-circuit protection: no

Electrical Data - LED

Operating voltage: 24V AC/DC
 Operating current I_e: BL, KL: approx. 19mA / RT: approx. 9mA /
 GN: approx. 7mA at 24V DC

Additional Information

Tightening torque (mounting nut): 1.5...1.9Nm
 Mounting position: user-defined
 Shock resistance: 75g
 Vibration resistance: 5-500Hz / 9.4m/s² (IEC 60721)



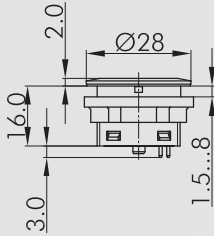
front bezel	illuminated ring		
stainless steel, polished	blue	SPVA_BL	
	green	SPVA_GN	
	clear	SPVA_KL	
	red/green	SPVA_RT	
	red/green		SPVA_RG

Capacitive Pushbutton

Illustration

Dimensions

IP66
IP67
IP69K



Capacitive Pushbutton

Operation display with four LEDs (Y, permanently lit)
four LEDs light additionally on actuation

Technical Data

Max. Storage temperature: -40°C ... +85°C
Max. Operating temperature: -10°C ... +60°C
Max. Switching frequency (at U_e): 10Hz
Standby delay time: max. 50ms

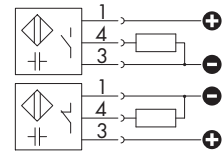
Electrical Data

Utilisation category: DC13
Operating voltage U_e: nom. 24V DC (12...30VDC)
Max. static voltage drop: 1.5V
Residual ripple: 10% (of U_e)
Rated insulation voltage U_i: 75V DC
Rated operating current I_e: 100mA
No-load current, not actuated: max. 10mA (GB / GN)
Short-circuit protection: yes
Reverse polarity protection: no

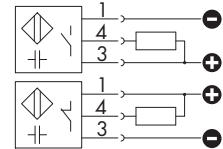
Additional Data

Tightening torque (mounting nut): 1.5...1.9Nm
Mounting position: user-defined
Standards: IEC 60947-5-2

⊕ switching



⊖ switching



front bezel	illuminated ring	1NO
silver-coloured	yellow/green	SK_GN_GB

IP65
IP67



Lead-sealable, robust Protective Lid

colour transparent

KDPR22RR

IP67



Protective Lid made of TPE

colour black

AK22RRSW

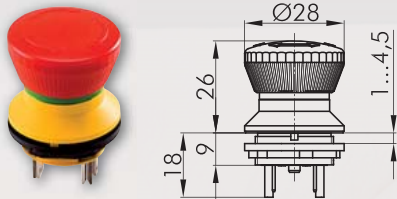
Emergency Stops

Type addition for gold-plated version _AU (e.g. FRVKOO_AU)

Illustration

Dimensions

IP66
IP67

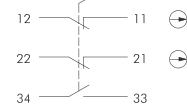
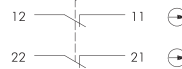


Emergency Stop

Faston terminals 2.8x0.8 mm

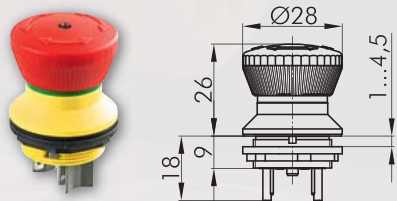


foolproof	Yes
switching position indicator	Yes
anti-lock collar	No
release	twist right or left
Standard	EN 60947-5-1, EN 60068-2-1/-2-2/-2-30



front bezel		2NC	2NC + 1NO
yellow		FRVKOO	FRVKOOI

IP66
IP67

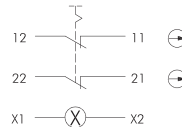


Illuminated Emergency Stop

Faston terminals 2.8x0.8 mm

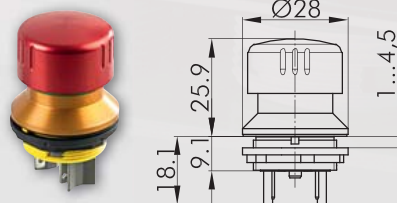


foolproof	Yes
switching position indicator	Yes
anti-lock collar	No
release	twist right or left
Standard	EN 60947-5-1, EN 60068-2-1/-2-2/-2-30



front bezel		2NC
yellow		FRVKLOO

IP66
IP67

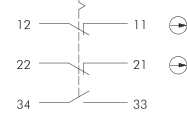
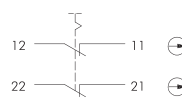


Emergency Stop, made of aluminium for robust applications

Faston terminals 2.8x0.8 mm



foolproof	Yes
switching position indicator	Yes
anti-lock collar	No
release	twist right or left
Standard	EN 60947-5-1, EN 60068-2-1/-2-2/-2-30, EN 60947-5-5, EN ISO 13850



front bezel		2NC	2NC + 1NO
yellow		FRVKALOO	FRVKALOOI

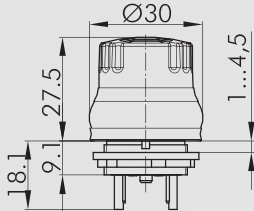
Emergency Stops

Type addition for gold-plated version _AU (e.g. FRVKPOO_AU)

Illustration

Dimensions

IP66
IP69K

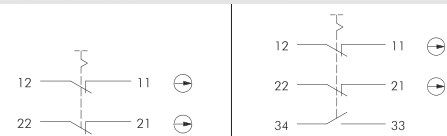


Emergency Stop for hygienic applications

Hygiene-tested acc. to DIN EN 1672-2 / DIN EN ISO 14159 and GS-NV 3, GS-NV 6

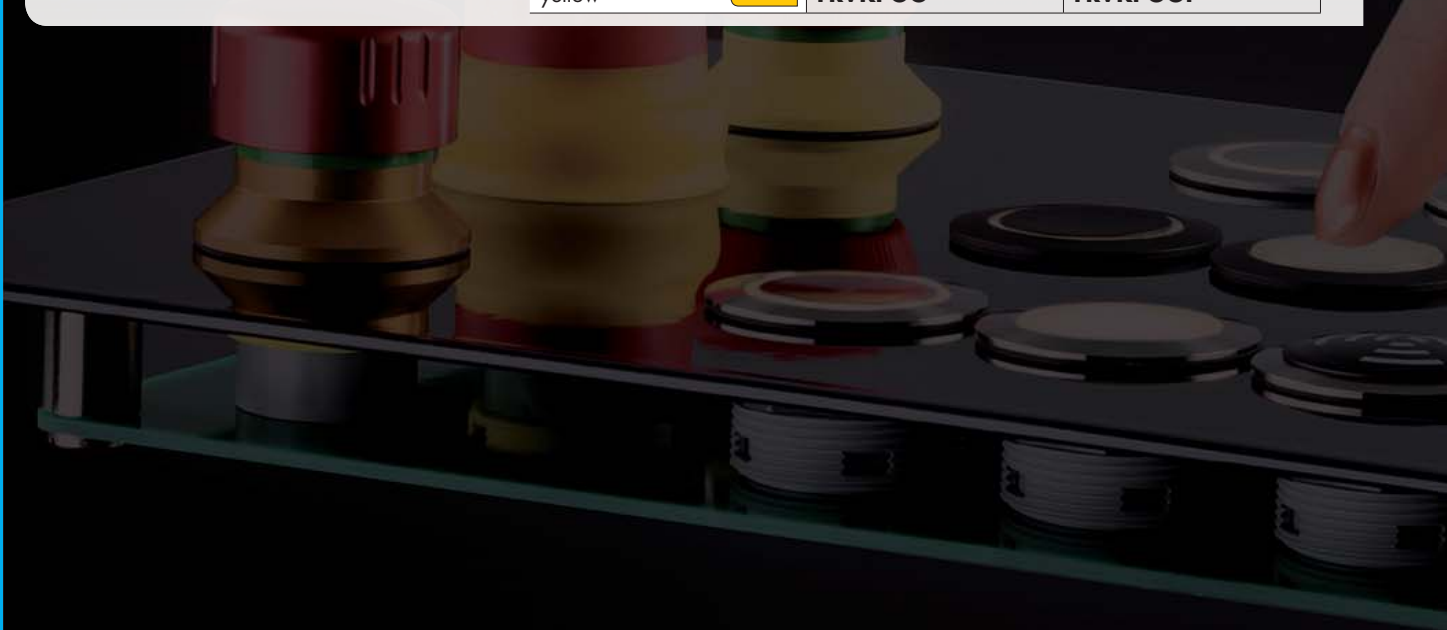
Faston terminals 2.8x0.8 mm

foolproof Yes
switching position indicator No
anti-lock collar No
release twist right or left
Standard EN 60947-5-1, EN 60068-2-1/-2-2/-2-30, EN 60947-5-5, EN ISO 13850



front bezel		2NC	2NC + 1NO
yellow		FRVKPOO	FRVKPOOI

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Selector Switches (momentary/maintained)

Type addition for gold-plated version _AU (e.g. SWAOL_AU)

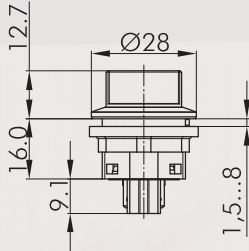
I = Switching position

> = Spring return

Illustration

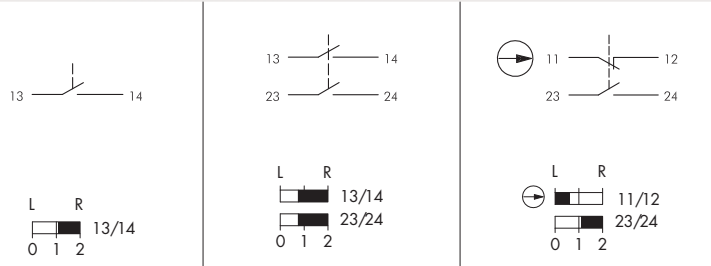
Dimensions

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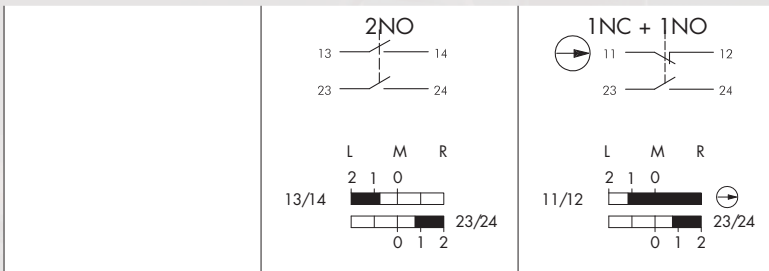


Selector Switch, maintained

Faston terminals 2.8x0.8 mm



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SWAI	SWAII	SWAOI
black		SSWAI	SSWAI	SSWAOI
stainless steel, polished		SVAWAI	SVAWAII	SVAWAOI



front bezel		2NO	1NC + 1NO
silver-coloured		SWBII	SWBOI
black		SSWVBII	SSWVBOI
stainless steel, polished		SVAWBII	SVAWBOI



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Selector Switches (momentary/maintained)

Type addition for gold-plated version _AU (e.g. SWAOI_AU)

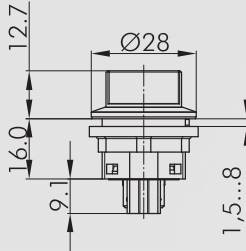
I = Switching position

> = Spring return

Illustration

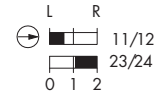
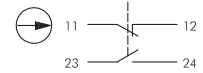
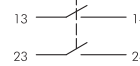
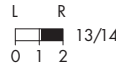
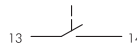
Dimensions

IP65



Selector Switch, momentary

Faston terminals 2.8x0.8 mm



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSTAI	SSTAI	SSTAOI
black		SSWSTAI	SSWSTAI	SSWSTAOI
stainless steel, polished		SVASTAI	SVASTAI	SVASTAOI



		2NO	1NC + 1NO

front bezel		2NO	1NC + 1NO
silver-coloured		SSTBII	SSTBOI
black		SSWSTBII	SSWSTBOI
stainless steel, polished		SVASTBII	SVASTBOI



Selector Switches (momentary/maintained)

Type addition for gold-plated version _AU (e.g. SWCOI_AU)

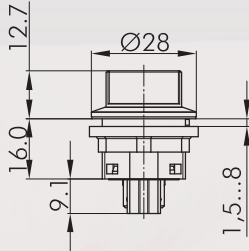
I = Switching position

> = Spring return

Illustration

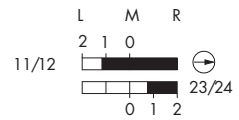
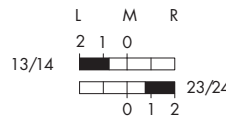
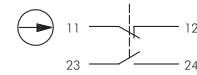
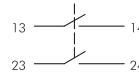
Dimensions

IP65



Selector Switch, left maintained, right momentary

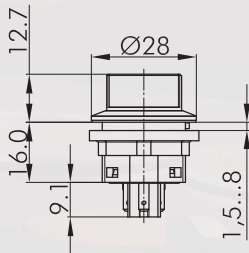
Faston terminals 2.8x0.8 mm



front bezel		2NO	1NC + 1NO
silver-coloured		SWCII	SWCOI
black		SSWCII	SSWCOI
stainless steel, polished		SVAWCII	SVAWCOI

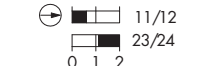
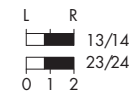
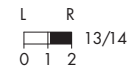
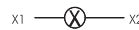
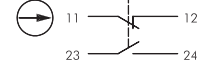
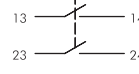
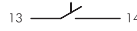


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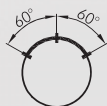
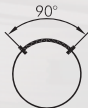


Illuminated Selector Switch, maintained

Faston terminals 2.8x0.8 mm



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SWALI	SWALII	SWALOI
black		SSWALI	SSWALII	SSWALOI
stainless steel, polished		SVAWALI	SVAWALII	SVAWALOI



front bezel		2NO	1NC + 1NO
silver-coloured		SWBLII	SWBLOI
black		SSWBLLII	SSWBLOI
stainless steel, polished		SVAWBLLII	SVAWBLOI

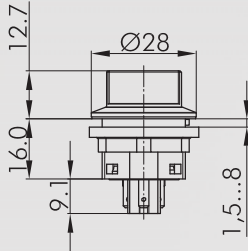
Selector Switches (momentary/maintained)
Type addition for gold-plated version _AU (e. g. SSSA14OIZ_AU)

I = Switching position
> = Spring return

Illustration

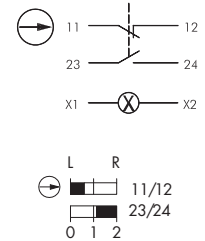
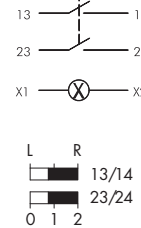
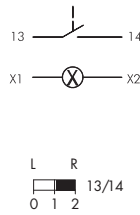
Dimensions

IP65



Illuminated Selector Switch, momentary

Faston terminals 2.8x0.8 mm



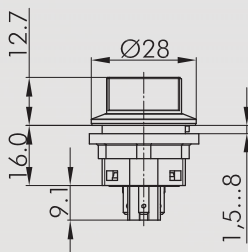
front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSTALI	SSTALII	SSTALOI
black		SSWSTALI	SSWSTALII	SSWSTALOI
stainless steel, polished		SVASTALI	SVASTALII	SVASTALOI



front bezel		2NO	1NC + 1NO
silver-coloured		SSTBLII	SSTBLOI
black		SSWSTBLII	SSWSTBLOI
stainless steel, polished		SVASTBLII	SVASTBLOI

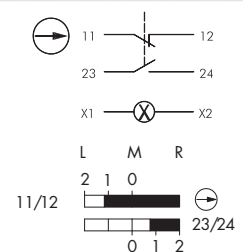
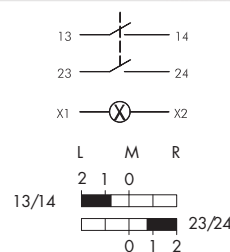


IP65



Illuminated Selector Switch, left maintained, right momentary

Faston terminals 2.8x0.8 mm



front bezel		2NO	1NC + 1NO
silver-coloured		SWCLII	SWCLOI
black		SSWWCLII	SSWWCLOI
stainless steel, polished		SWAWCLII	SWAWCLOI



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Key Switches (momentary/maintained)

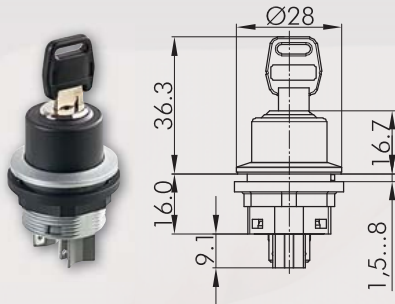
Type addition for gold-plated version _AU (e. g. SSSA12OI_AU)

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

Illustration

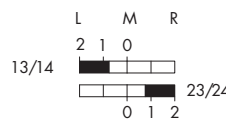
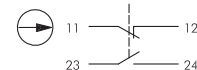
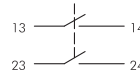
Dimensions

IP65



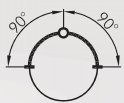
Key-operated Switch, maintained

incl. two keys,
other lock types on request
Faston terminals 2.8x0.8 mm

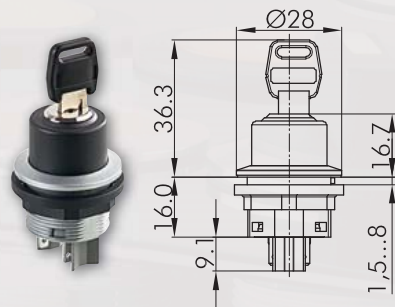


front bezel		2NO	1NC + 1NO
silver-coloured		SSSA12II	SSSA12OI
black		SSWSSA12II	SSWSSA12OI
stainless steel, polished		SVASSA12II	SVASSA12OI

front bezel		2NO	1NC + 1NO
silver-coloured		SSSA13II	SSSA13OI
black		SSWSSA13II	SSWSSA13OI
stainless steel, polished		SVASSA13II	SVASSA13OI

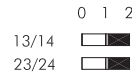
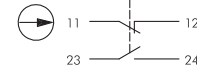
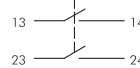


IP65



Key-operated Switch, maintained (individually keyed)

incl. three keys
1st key: two-way operation
2nd key: operation only to the left
3rd key: operation only to the right
Faston terminals 2.8x0.8 mm



front bezel		2NO	1NC + 1NO
silver-coloured		SSSA31II	SSSA31OI
black		SSWSSA31II	SSWSSA31OI
stainless steel, polished		SVASSA31II	SVASSA31OI



Key Switches (momentary/maintained)

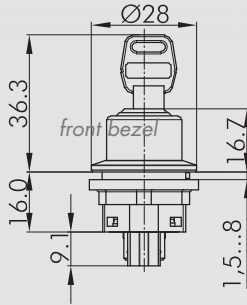
Type addition for gold-plated version _AU (e.g. SSSA14OI_AU)

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

Illustration

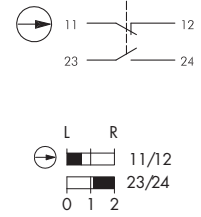
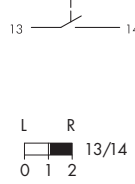
Dimensions

IP65



Key-operated Switch, maintained

incl. two keys,
other lock types on request
Faston terminals 2.8x0.8 mm



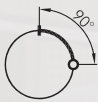
front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA14I	SSSA14II	SSSA14OI
black		SSWSSA14I	SSWSSA14II	SSWSSA14OI
stainless steel, polished		SVASSA14I	SVASSA14II	SVASSA14OI



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA15I	SSSA15II	SSSA15OI
black		SSWSSA15I	SSWSSA15II	SSWSSA15OI
stainless steel, polished		SVASSA15I	SVASSA15II	SVASSA15OI



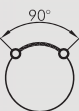
front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA16I	SSSA16II	SSSA16OI
black		SSWSSA16I	SSWSSA16II	SSWSSA16OI
stainless steel, polished		SVASSA16I	SVASSA16II	SVASSA16OI



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA17I	SSSA17II	SSSA17OI
black		SSWSSA17I	SSWSSA17II	SSWSSA17OI
stainless steel, polished		SVASSA17I	SVASSA17II	SVASSA17OI



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA18I	SSSA18II	SSSA18OI
black		SSWSSA18I	SSWSSA18II	SSWSSA18OI
stainless steel, polished		SVASSA18I	SVASSA18II	SVASSA18OI



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Limit Switches

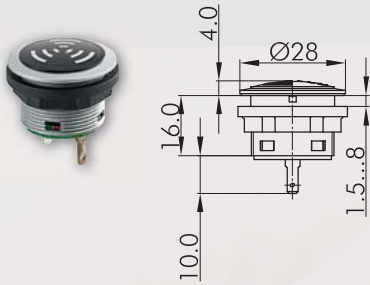
Type Index

Buzzers

Illustration

Dimensions

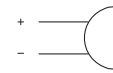
IP65



Buzzer

operating voltage: 24V DC
 operating current: 10mA
 signal frequency: 4.1 +/- 0.5 kHz
 volume: max. 83 db (10cm)
 operating temperature: -20°C ... 70°C

Faston terminals 2.8x0.8 mm



front bezel		1 inverter
silver-coloured		SNSG+SG-24V
black		SSWNSG+SG-24V
stainless steel, polished		SVANSG+SG-24V

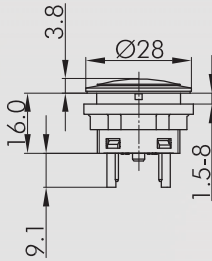


Pilot Lights

Lenses and nameplates to be ordered separately.

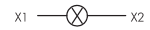
Illustration

Dimensions



Pilot Light

incl. white LED
Faston terminals 2.8 mm



front bezel		1 inverter
silver-coloured		SNL
black		SSWNL
stainless steel, polished		SVANL



Lens

colour

blue



K22RRBL

yellow



K22RRGB

green



K22RRGN

clear



K22RRKL

red



K22RRRT

opalwhite



K22RRWS



Blank Nameplate

BSRRU



Nameplate with standard imprint

BSRR...

Please specify index number (see nameplates from page 410 of main catalogue)

Nameplate with special imprint

BSRRB

according to customer's specification

Accessories for Control Units

Illustration

Dimensions



Faston Clamp 2.8 x 0.8 mm with snap-in pin

FH2,8

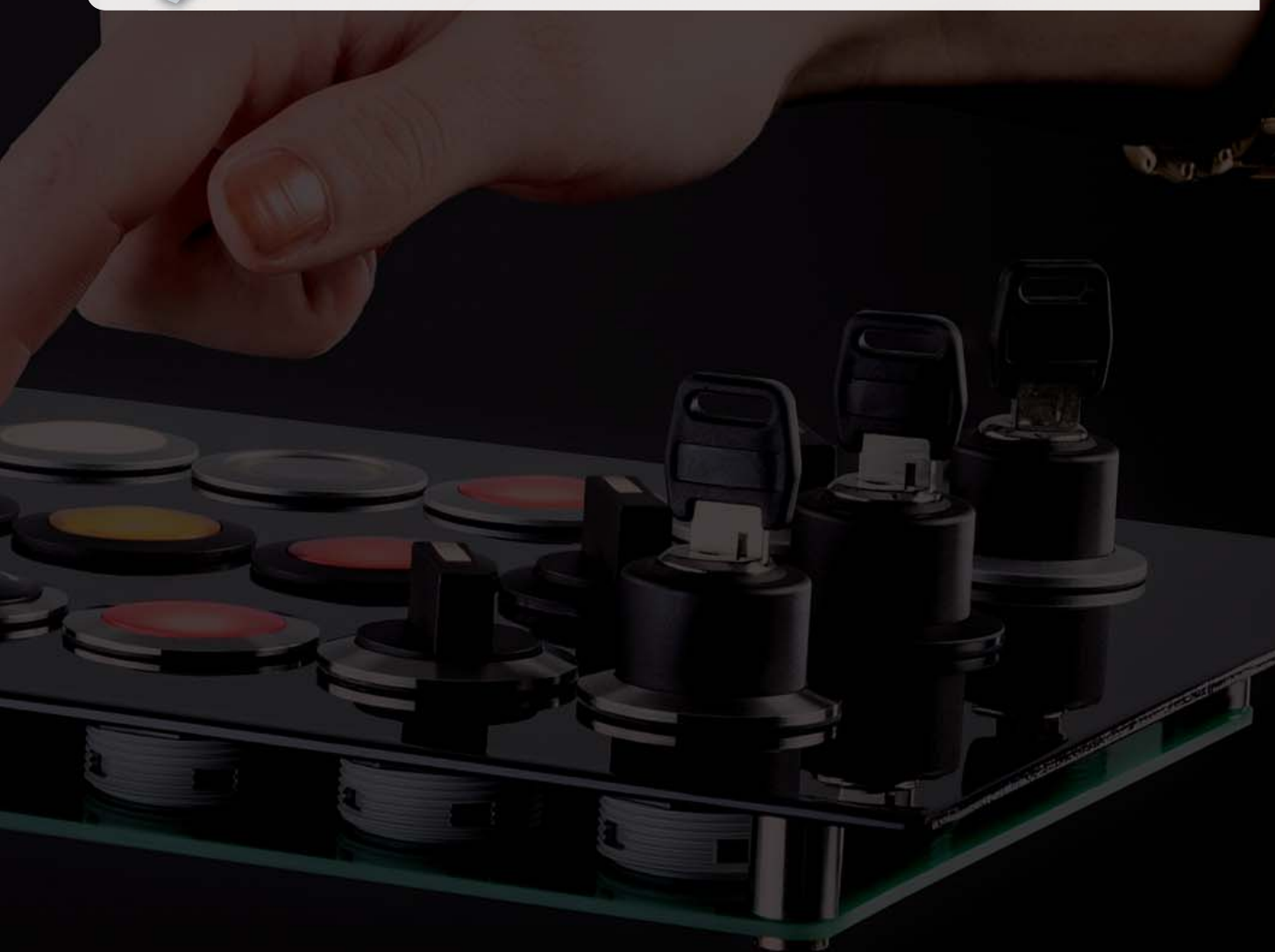
Cross section 0.75 - 1.50 mm², tin-plated brass, with pin to snapfit into the sockets XA, XAL and the insulating case IH2.8



Insulating Case

IH2,8

for Faston clamp FH2,8, slip on from the front



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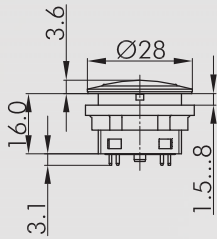
Type Index

Pushbutton Heads

Lenses and nameplates to be ordered separately.
Type addition for gold-plated contacts *_AU* (e.g. STLOIZ_AU)

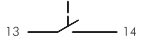
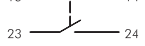
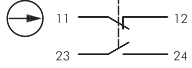
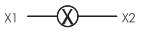
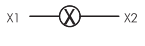
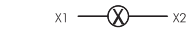








Illustration

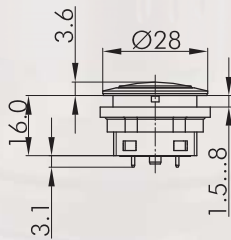
Dimensions



Illuminated Pushbutton, for base-plate mounting

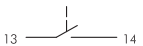

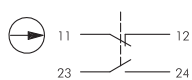

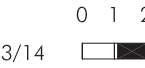









incl. white LED
PCB-mount terminals

			
			
	0 1 2	0 1 2	0 1 2
	13/14 	13/14  23/24 	11/12  23/24 
<i>front bezel</i>	1NO	2NO	1NC + 1NO
silver-coloured 	STLIZ	STLIIZ	STLOIZ
black 	SSWTLIZ	SSWTLIIZ	SSWTLOIZ
stainless steel, polished 	SVATLIZ	SVATLIIZ	SVATLOIZ



Pushbutton, for base-plate mounting

PCB-mount terminals

			
			
	0 1 2	0 1 2	0 1 2
	13/14 	13/14  23/24 	11/12  23/24 
<i>front bezel</i>	1NO	2NO	1NC + 1NO
silver-coloured 	STIZ	STIIZ	STOIZ
black 	SSWTIZ	SSWTIIZ	SSWTOIZ
stainless steel, polished 	SVATIZ	SVATIIZ	SVATOIZ

Pushbutton Heads

Lenses and nameplates to be ordered separately.

Illustration

Dimensions



Domed Lens, transparent

colour	blue		T22DRRBL
	yellow		T22DRRGB
	green		T22DRRGN
	clear		T22DRRKL
	red		T22DRRRT
	opalwhite		T22DRRWS



Flat Lens, transparent

colour	blue		T22RRBL
	yellow		T22RRGB
	green		T22RRGN
	clear		T22RRKL
	red		T22RRRT
	opalwhite		T22RRWS



High Lens, transparent

colour	blue		T22HRRBL
	yellow		T22HRRGB
	green		T22HRRGN
	clear		T22HRRKL
	red		T22HRRRT
	opalwhite		T22HRRWS



Flat Lens, non-transparent

colour	blue		T22RRGBL
	yellow		T22RRGGB
	green		T22RRGGN
	black		T22RRGSW
	red		T22RRGRT
	white		T22RRGWS



Blank Nameplate

BSRRU



Nameplate with standard imprint

BSRR...

Please specify index number (see nameplates from page 410 of main catalogue)



Nameplate with special imprint

BSRRB

according to customer's specification

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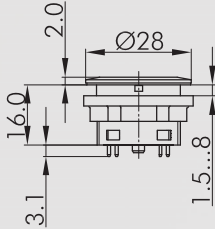
Type Index

Pushbutton Heads

Type addition for gold-plated version _AU (e.g. STLOIZ_AU)

Illustration

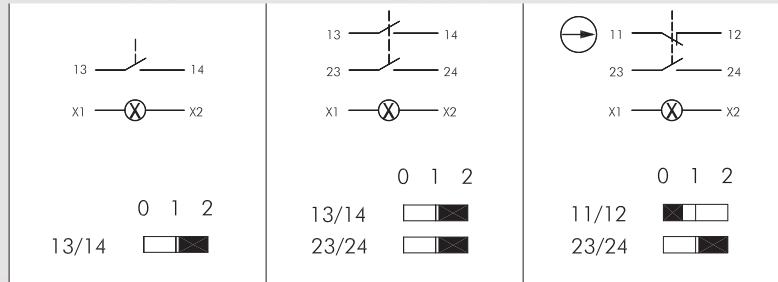
Dimensions



Pushbutton with ring illumination, for base-plate mounting

incl. lens and LED

PCB-mount terminals



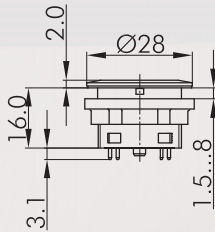
front bezel	illuminated ring	1NO	2NO	1NC + 1NO
silver-coloured	white	STLRWIZ	STLRWIIZ	STLRWOIZ
	red	STLRRIZ	STLRRIIZ	STLRROIZ
	green	STLRGIZ	STLRGIIZ	STLRGOIZ
	yellow	STLRYIZ	STLRYIIZ	STLRYOIZ
	blue	STLRBIZ	STLRBIIZ	STLRBOIZ
black	white	SSWTLRWIZ	SSWTLRWIIZ	SSWTLRWOIZ
	red	SSWTLRRIZ	SSWTLRRIIZ	SSWTLRROIZ
	green	SSWTLRGIZ	SSWTLRGIIZ	SSWTLRGOIZ
	yellow	SSWTLRYIZ	SSWTLRYIIZ	SSWTLRYOIZ
	blue	SSWTLRBIZ	SSWTLRBIIZ	SSWTLRBOIZ
stainless steel, polished	white	SVATLRWIZ	SVATLRWIIZ	SVATLRWOIZ
	red	SVATLRRIZ	SVATLRRIIZ	SVATLRROIZ
	green	SVATLRGIZ	SVATLRGIIZ	SVATLRGOIZ
	yellow	SVATLRYIZ	SVATLRYIIZ	SVATLRYOIZ
	blue	SVATLRBIZ	SVATLRBIIZ	SVATLRBOIZ

Pushbutton Heads

Type addition for gold-plated version _AU (e. g. STLOIZ_AU)

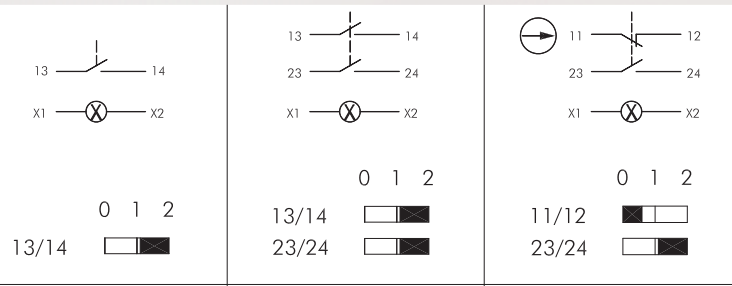
Illustration

Dimensions



Pushbutton with ring illumination and laser printing, for base-plate mounting

incl. lens and LED,
standard imprints see nameplates from page 410 of main catalogue (please specify index no.),
special inscription on request
PCB-mount terminals



front bezel	illuminated ring	1NO	2NO	1NC + 1NO
silver-coloured	white	STLRWIZ...	STLRWIIZ...	STLRWOIZ...
	red	STLRRIZ...	STLRRIIZ...	STLRROIZ...
	green	STLRGIZ...	STLRGIIZ...	STLRGOIZ...
	yellow	STLRYIZ...	STLRYIIZ...	STLRYOIZ...
	blue	STLRBIZ...	STLRBIIZ...	STLRBOIZ...
stainless steel, polished	white	SVATLRWIZ...	SVATLRWIIZ...	SVATLRWOIZ...
	red	SVATLRRIZ...	SVATLRRIIZ...	SVATLRROIZ...
	green	SVATLRGIZ...	SVATLRGIIZ...	SVATLRGOIZ...
	yellow	SVATLRYIZ...	SVATLRYIIZ...	SVATLRYOIZ...
	blue	SVATLRBIZ...	SVATLRBIIZ...	SVATLRBOIZ...

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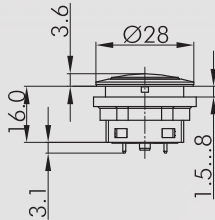
Type Index

Pushbutton Heads

Lenses and nameplates to be ordered separately.

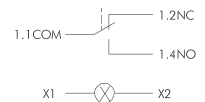
Illustration

Dimensions

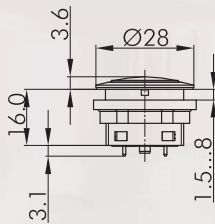


Tactile Pushbutton, illuminated for base-plate mounting

incl. white LED, gold-plated contacts
PCB-mount terminals

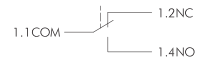


front bezel		1 inverter
silver-coloured		SCTLZ
black		SSWCTLZ
stainless steel, polished		SVACTLZ



Tactile Pushbutton for base-plate mounting

gold-plated contacts
PCB-mount terminals



front bezel		1 inverter
silver-coloured		SCTZ
black		SSWCTZ
stainless steel, polished		SVACTZ

Pushbutton Heads

Lenses and nameplates to be ordered separately.

Illustration

Dimensions



Domed Lens, transparent

colour	blue		T22DRRBL
	yellow		T22DRRGB
	green		T22DRRGN
	clear		T22DRRKL
	red		T22DRRRT
	opalwhite		T22DRRWS



Flat Lens, transparent

colour	blue		T22RRBL
	yellow		T22RRGB
	green		T22RRGN
	clear		T22RRKL
	red		T22RRRT
	opalwhite		T22RRWS



High Lens, transparent

colour	blue		T22HRRBL
	yellow		T22HRRGB
	green		T22HRRGN
	clear		T22HRRKL
	red		T22HRRRT
	opalwhite		T22HRRWS



Flat Lens, non-transparent

colour	blue		T22RRGBL
	yellow		T22RRGGB
	green		T22RRGGN
	black		T22RRGSW
	red		T22RRGRT
	white		T22RRGWS



Blank Nameplate

BSRRU



Nameplate with standard imprint

Please specify index number (see nameplates from page 410 of main catalogue)

BSRR...

Nameplate with special imprint

according to customer's specification

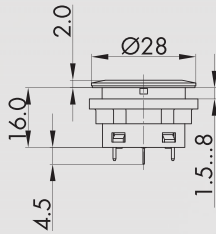
BSRRB

Pushbutton Heads

Illustration

Dimensions

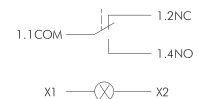
IP65
IP67



Tactile Pushbutton with ring illumination for base-plate mounting

incl. white LED, with gold-plated contacts

PCB-mount terminals

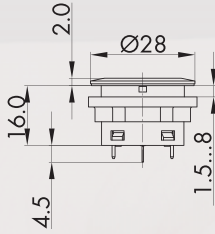


front bezel		illuminated ring		1 inverter
silver-coloured		white		SCTLRWZ
		red		SCTLRRZ
		green		SCTLRGZ
		yellow		SCTLRYZ
		blue		SCTLRBZ
black		white		SSWCTLRWZ
		red		SSWCTLRRZ
		green		SSWCTLRGZ
		yellow		SSWCTLRYZ
		blue		SSWCTLRBZ
stainless steel, polished		white		SVACTLRWZ
		red		SVACTLRRZ
		green		SVACTLRGZ
		yellow		SVACTLRYZ
		blue		SVACTLRBZ

Pushbutton Heads

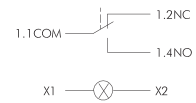
Illustration

Dimensions



Tactile Pushbutton with ring illumination and laser printing for base-plate mounting

incl. lens and white LED,
standard imprints see nameplates from page 410 of main catalogue
(please specify index no.),
special inscription on request
PCB-mount terminals



front bezel	illuminated ring	1 inverter
silver-coloured	white	SCTLRWZ...
	red	SCTLRRZ...
	green	SCTLRGZ...
	yellow	SCTLRYZ...
	blue	SCTLRBZ...
stainless steel, polished	white	SVACTLRWZ...
	red	SVACTLRRZ...
	green	SVACTLRGZ...
	yellow	SVACTLRYZ...
	blue	SVACTLRBZ...

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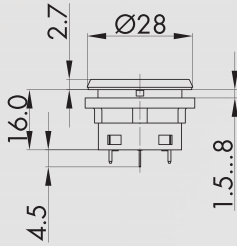
Limit Switches

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Membrane Pushbuttons

Illustration

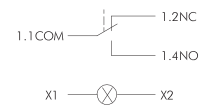
Dimensions



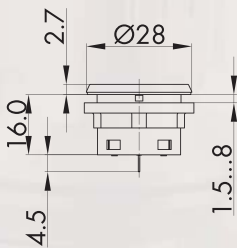
Illuminated Tactile Membrane Key made of stainless steel V4A, for base-plate mounting

combining the advantages of a membrane keypad with the flexibility of conventional actuators, with blank nameplate. Standard inscription (from page 410 of main catalogue) or special imprints on request

incl. white LED
with gold-plated contacts
PCB-mount terminals



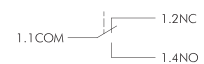
front bezel	1 inverter
stainless steel, polished	SVACFTLZ



Tactile Membrane Key made of stainless steel V4A, for base-plate mounting

combining the advantages of a membrane keypad with the flexibility of conventional actuators, with blank nameplate. Standard inscription (from page 410 of main catalogue) or special imprints on request

with gold-plated contacts
PCB-mount terminals



front bezel	1 inverter
stainless steel, polished	SVACFTZ

Emergency Stops

Type addition for gold-plated version _AU (e.g. FRVKOOZ_AU)

Illustration

Dimensions

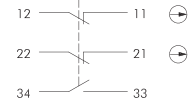
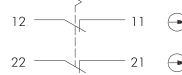
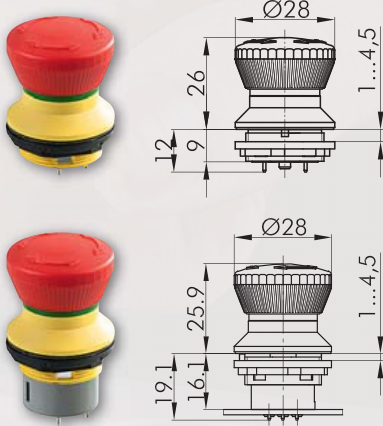
IP66
IP67

Emergency Stop for base-plate mounting

PCB-mount terminals

foolproof Yes
switching position indicator Yes
anti-lock collar No
release twist right or left
Standard EN 60947-5-1, EN 60068-2-1/-2-2/-2-30,
EN 60947-5-5, EN ISO 13850

base-plate mounted version - **9 mm** mounting depth



front bezel		2NC	2NC + 1NO
yellow		FRVKOOZ	FRVKOOIZ

base-plate mounted version - **16 mm** mounting depth
for flush mounting without spacer ring SDR(SW)

front bezel		2NC	2NC + 1NO
yellow		FRVKOOLZ	FRVKOOLIZ

IP66
IP67

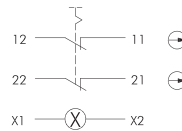
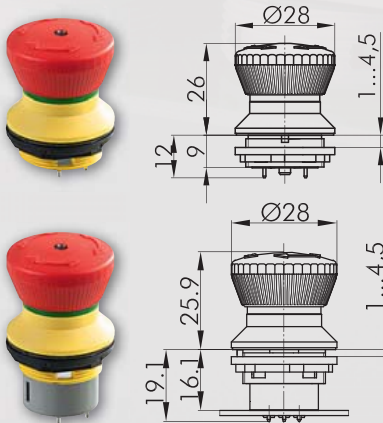


Illuminated Emergency Stop, for base-plate mounting

PCB-mount terminals

foolproof Yes
switching position indicator Yes
anti-lock collar No
release twist right or left
Standard EN 60947-5-1, EN 60068-2-1/-2-2/-2-30,
EN 60947-5-5, EN ISO 13850

base-plate mounted version - **9 mm** mounting depth



front bezel		2NC	
yellow		FRVKLOOZ	

base-plate mounted version - **16 mm** mounting depth
for flush mounting without spacer ring SDR(SW)

front bezel		2NC	
yellow		FRVKLOOLZ	

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Type addition for gold-plated version _AU (e.g. FRVKALOOZ_AU)

Illustration

Dimensions

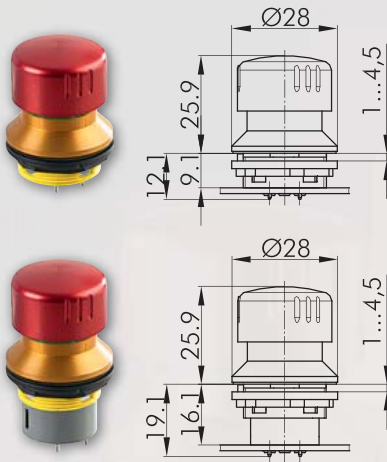
IP66
IP67

Emergency Stop, made of aluminium for robust applications - base-plate mounting

PCB-mount terminals

foolproof	Yes
switching position indicator	Yes
anti-lock collar	No
release	twist right or left
Standard	EN 60947-5-1, EN 60068-2-1/-2-2/-2-30, EN 60947-5-5, EN ISO 13850

base-plate mounted version - **9 mm** mounting depth



front bezel	2NC	2NC + 1NO
yellow	FRVKALOOZ	FRVKALOOIZ

base-plate mounted version - **16 mm** mounting depth for flush mounting without spacer ring SDR(SW)

front bezel	2NC	2NC + 1NO
yellow	FRVKALOO LZ	FRVKALOO ILZ

IP66
IP69K

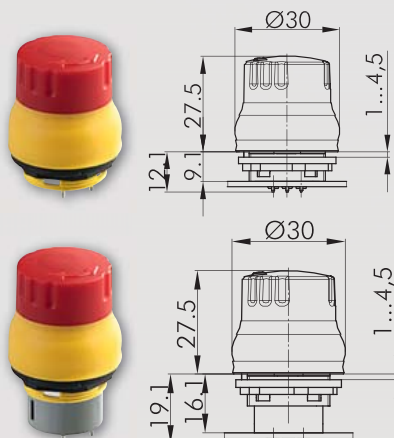
Emergency Stop for hygienic applications - base-plate mounting

PCB-mount terminals

foolproof	Yes
switching position indicator	No
anti-lock collar	No
release	twist right or left
Standard	EN 60947-5-1, EN 60068-2-1/-2-2/-2-30, EN 60947-5-5, EN ISO 13850

Hygiene-tested acc. to DIN EN 1672-2 / DIN EN ISO 14159 and GS-NV 3, GS-NV 6

base-plate mounted version - **9 mm** mounting depth



front bezel	2NC	2NC + 1NO
yellow	FRVKPOOZ	FRVKPOOIZ

Hygiene-tested acc. to DIN EN 1672-2 and GS-NV 3, GS-NV 6
base-plate mounted version - **16 mm** mounting depth for flush mounting without spacer ring SDR(SW)

front bezel	2NC	2NC + 1NO
yellow	FRVKPOOLZ	FRVKPOOL ILZ

Selector Switches (momentary/maintained)

Type addition for gold-plated version _AU (e.g. SWAOIZ_AU)

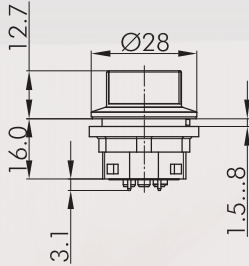
I = Switching position

> = Spring return

Illustration

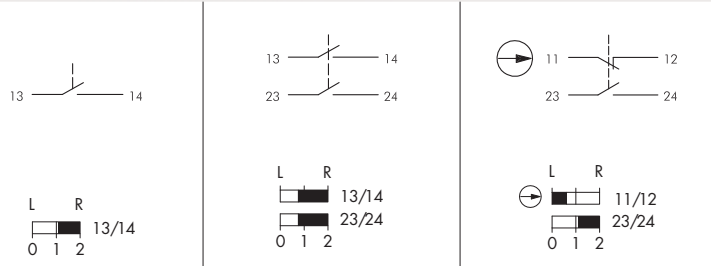
Dimensions

IP65

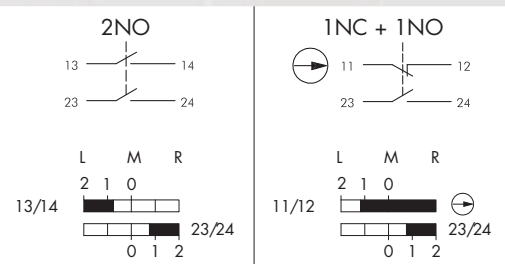


Selector Switch, maintained, for base-plate mounting

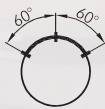
PCB-mount terminals



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SWAIZ	SWAIIZ	SWAOIZ
black		SSWAIZ	SSWAIIZ	SSWAOIZ
stainless steel, polished		SVAWAIZ	SVAWAIIZ	SVAWAOIZ



front bezel		2NO	1NC + 1NO
silver-coloured		SWBIIZ	SWBOIZ
black		SSWBIIZ	SSWBOIZ
stainless steel, polished		SVAWBIIZ	SVAWBOIZ



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Selector Switches (momentary/maintained)

Type addition for gold-plated version _AU (e. g. SSTAOIZ_AU)

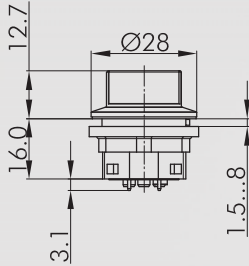
I = Switching position

> = Spring return

Illustration

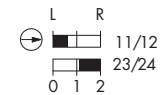
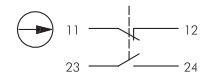
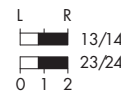
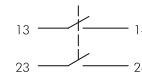
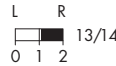
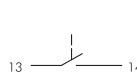
Dimensions

IP65



Selector Switch, momentary, for base-plate mounting

PCB-mount terminals



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSTAIZ	SSTAIIZ	SSTAOIZ
black		SSWSTAIZ	SSWSTAIIZ	SSWSTAOIZ
stainless steel, polished		SVASTAIZ	SVASTAIIZ	SVASTAOIZ



		2NO	1NC + 1NO
front bezel		2NO	1NC + 1NO
silver-coloured		SSTBIIZ	SSTBOIZ
black		SSWSTBIIZ	SSWSTBOIZ
stainless steel, polished		SVASTBIIZ	SVASTBOIZ



Selector Switches (momentary/maintained)

Type addition for gold-plated version _AU (e.g. SWCOIZ_AU)

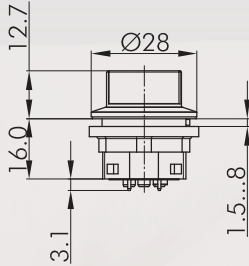
I = Switching position

> = Spring return

Illustration

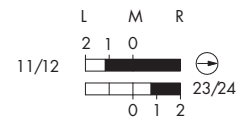
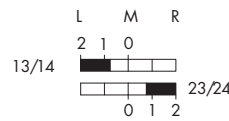
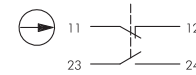
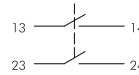
Dimensions

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Selector Switch, left maintained, right momentary for base-plate mounting

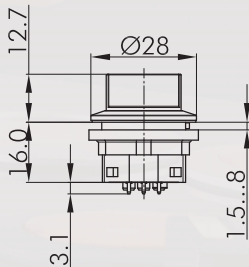
PCB-mount terminals



front bezel		2NO	1NC + 1NO
silver-coloured		SWCIIZ	SWCOIZ
black		SSWWCIIZ	SSWWCOIZ
stainless steel, polished		SVAWCIIZ	SVAWCOIZ

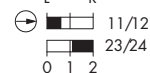
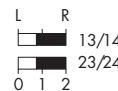
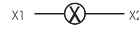
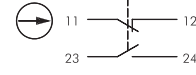
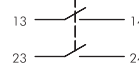
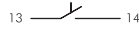


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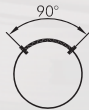


Illuminated Selector Switch, maintained, for base-plate mounting

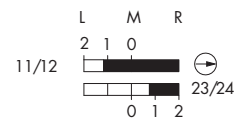
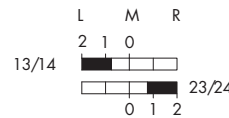
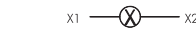
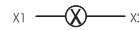
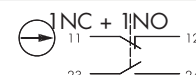
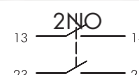
PCB-mount terminals



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SWALIZ	SWALIIZ	SWALOIZ
black		SSWWALIZ	SSWWALIIZ	SSWWALOIZ
stainless steel, polished		SVAWALIZ	SVAWALIIZ	SVAWALOIZ



front bezel		2NO	1NC + 1NO
silver-coloured		SWBLIIZ	SWBLOIZ
black		SSWWBLIIZ	SSWWBLOIZ
stainless steel, polished		SVAWBLIIZ	SVAWBLOIZ



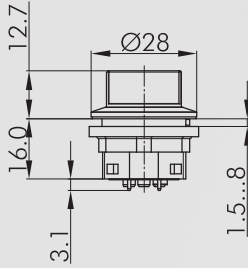
Selector Switches (momentary/maintained)
Type addition for gold-plated version _AU (e.g. SSTALOIZ_AU)

I = Switching position
> = Spring return

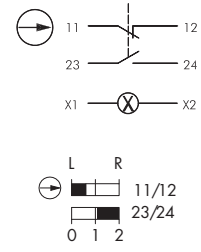
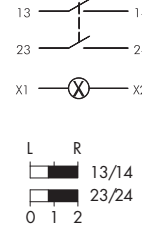
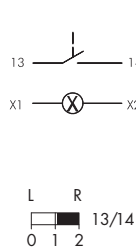
Illustration

Dimensions

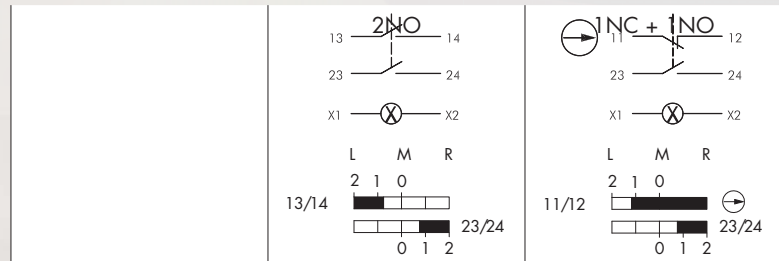
IP65



Illuminated Selector Switch, momentary, for base-plate mounting
PCB-mount terminals



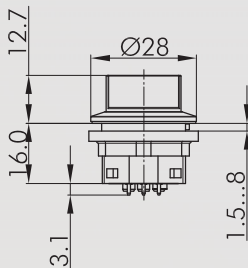
front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSTALIZ	SSTALIIZ	SSTALOIZ
black		SSWSTALIZ	SSWSTALIIZ	SSWSTALOIZ
stainless steel, polished		SVASTALIZ	SVASTALIIZ	SVASTALOIZ



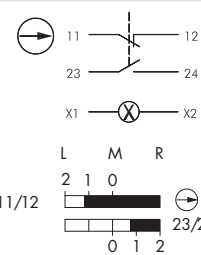
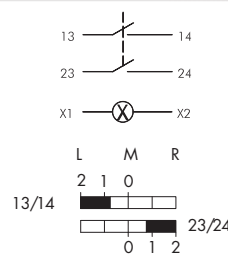
front bezel		2NO	1NC + 1NO
silver-coloured		SSTBLIIZ	SSTBLOIZ
black		SSWSTBLIIZ	SSWSTBLOIZ
stainless steel, polished		SVASTBLIIZ	SVASTBLOIZ



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Illuminated Selector Switch, left maintained, right momentary, for base-plate mounting
PCB-mount terminals



front bezel		2NO	1NC + 1NO
silver-coloured		SWCLIIZ	SWCLOIZ
black		SSWWCLIIZ	SSWWCLOIZ
stainless steel, polished		SWAWCLIIZ	SWAWCLOIZ



Key Switches (momentary/maintained)

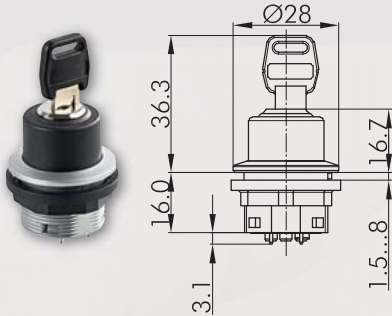
Type addition for gold-plated version _AU (e. g. SSSA12OIZ_AU)

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

Illustration

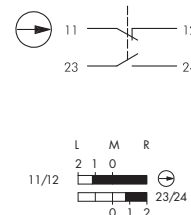
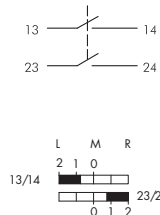
Dimensions

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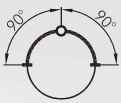
Key-operated Switch, maintained, for base-plate mounting

incl. two keys,
other lock types on request
PCB-mount terminals

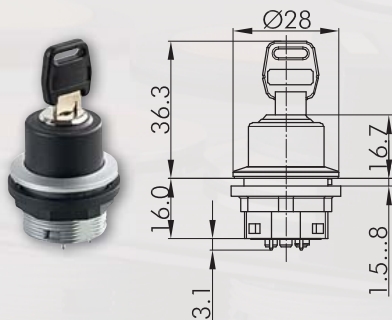


front bezel		2NO	1NC + 1NO
silver-coloured		SSSA12IIZ	SSSA12OIZ
black		SSWSSA12IIZ	SSWSSA12OIZ
stainless steel, polished		SVASSA12IIZ	SVASSA12OIZ

front bezel		2NO	1NC + 1NO
silver-coloured		SSSA13IIZ	SSSA13OIZ
black		SSWSSA13IIZ	SSWSSA13OIZ
stainless steel, polished		SVASSA13IIZ	SVASSA13OIZ

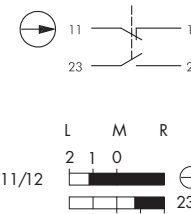
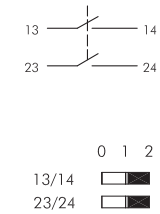


IP65

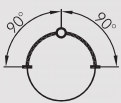


Key-operated Switch (individually keyed) for base-plate mounting

incl. three keys
1st key: two-way operation
2nd key: operation only to the left
3rd key: operation only to the right
PCB-mount terminals



front bezel		2NO	1NC + 1NO
silver-coloured		SSSA31IIZ	SSSA31OIZ
black		SSWSSA31IIZ	SSWSSA31OIZ
stainless steel, polished		SVASSA31IIZ	SVASSA31OIZ



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Key Switches (momentary/maintained)

Type addition for gold-plated version _AU e. g. SSSA14OIZ_AU)

I = Switching position

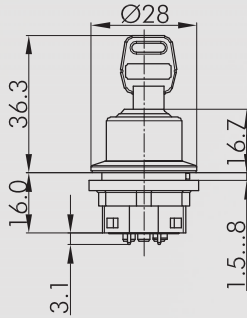
> = Spring return

○ = Key removable position

Illustration

Dimensions

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Key-operated Switch, maintained, for base-plate mounting

incl. two keys,
other lock types on request
PCB-mount terminals

13 — 14

L R
0 1 2 13/14

13 — 14
23 — 24

L R
0 1 2 13/14
23/24

11 — 12
23 — 24

L R
0 1 2 11/12
23/24

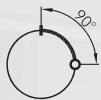
front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA14IZ	SSSA14IIZ	SSSA14OIZ
black		SSWSSA14IZ	SSWSSA14IIZ	SSWSSA14OIZ
stainless steel, polished		SVASSA14IZ	SVASSA14IIZ	SVASSA14OIZ



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA15IZ	SSSA15IIZ	SSSA15OIZ
black		SSWSSA15IZ	SSWSSA15IIZ	SSWSSA15OIZ
stainless steel, polished		SVASSA15IZ	SVASSA15IIZ	SVASSA15OIZ



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA16IZ	SSSA16IIZ	SSSA16OIZ
black		SSWSSA16IZ	SSWSSA16IIZ	SSWSSA16OIZ
stainless steel, polished		SVASSA16IZ	SVASSA16IIZ	SVASSA16OIZ



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA17IZ	SSSA17IIZ	SSSA17OIZ
black		SSWSSA17IZ	SSWSSA17IIZ	SSWSSA17OIZ
stainless steel, polished		SVASSA17IZ	SVASSA17IIZ	SVASSA17OIZ



front bezel		1NO	2NO	1NC + 1NO
silver-coloured		SSSA18IZ	SSSA18IIZ	SSSA18OIZ
black		SSWSSA18IZ	SSWSSA18IIZ	SSWSSA18OIZ
stainless steel, polished		SVASSA18IZ	SVASSA18IIZ	SVASSA18OIZ

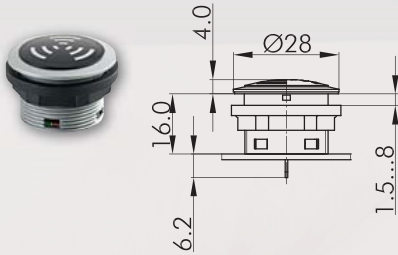


Buzzers

Illustration

Dimensions

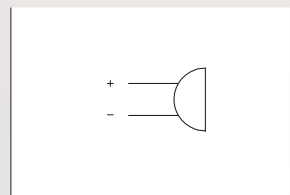
IP65



Buzzer for base-plate mounting

operating voltage: 12V DC
 operating current: max. 10mA
 signal frequency: 4.1 +/- 0.5 kHz
 volume: max. 85 db (10cm)
 operating temperature: -20°C ... 70°C

PCB-mount terminals



front bezel		1 inverter
silver-coloured		SNSG+SG-12Z
black		SSWNSG+SG-12Z
stainless steel, polished		SVANSG+SG-12Z



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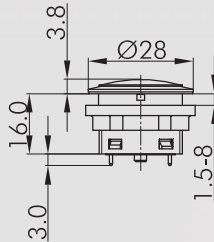
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Pilot Lights

Lenses and nameplates to be ordered separately.

Illustration

Dimensions



Pilot Light for base-plate mounting

incl. white LED
PCB-mount terminals



front bezel		1 inverter
silver-coloured		SNLZ
black		SSWNLZ
stainless steel, polished		SVANLZ



Lens

colour

blue



K22RRBL

yellow



K22RRGB

green



K22RRGN

clear



K22RRKL

red



K22RRRT

opalwhite



K22RRWS



Blank Nameplate

BSRRU



Nameplate with standard imprint

BSRR...

Please specify index number (see nameplates from page 410 of main catalogue)

Nameplate with special imprint

BSRRB

according to customer's specification

Accessories for Control Units

Illustration

Dimensions



Spacer Ring

suitable for the Shortron series
for panel thickness from 0.5 to 2.5 mm
colour silver-coloured
black



SDR
SDRSW



Mounting Tool

with torque limitation
for the series QUARTEX-R(-JUWEL), KOMBITAST-R-JUWEL,
RONDEX, RONDEX-M, RVA, DUX-Basic, SHORTRON, jacks of the
RONTRON-R/-Q-JUWEL series

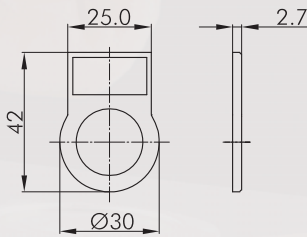
S22



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 RONTRON-R-JUWEL
and SHORTRON series,
accepts self-adhesive nameplates,
mountable from the front

colour transparent



RRJABT

Self-adhesive Nameplate laser-printed

Inscription according to customer's specification
Dimensions: 22 x 11 mm

BZ16G



Self-adhesive Nameplate blank

Dimensions: 22 x 11 mm

BZ16U



Self-adhesive Nameplate with standard imprint

Please specify index no.
(see nameplates on page 412 of main catalogue)
Dimensions: 22 x 11 mm

BZ16B...



Yellow Nameplate

self-adhesive PVC foil
printing on request
outer dia. 75 mm
for mounting dia. 22 mm
colour yellow



NAS_22



Yellow Nameplate with quadrilingual imprint

self-adhesive PVC foil
outer dia. 75 mm
for mounting dia. 22 mm
colour yellow



NAS_22_548

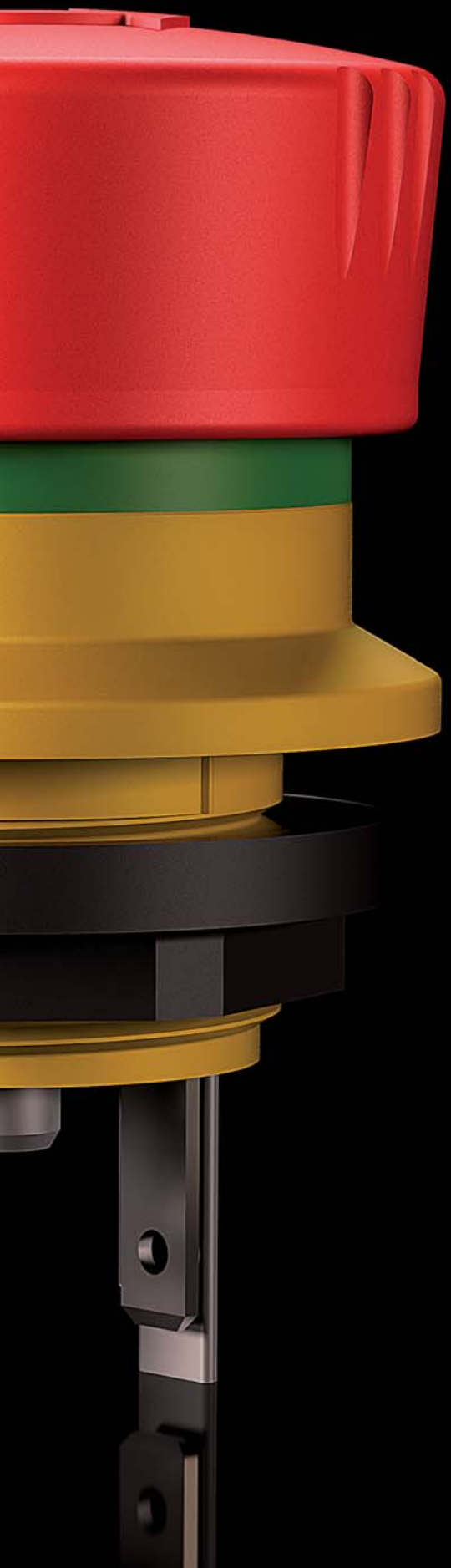


Universal Lens Remover

USK



Front dimensions: \varnothing 25 mm
Panel cut-out: \varnothing 16.2 mm



mYnitron

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Emergency Stops

Type addition for gold-plated version _AU (e. g. YVOO_AU)

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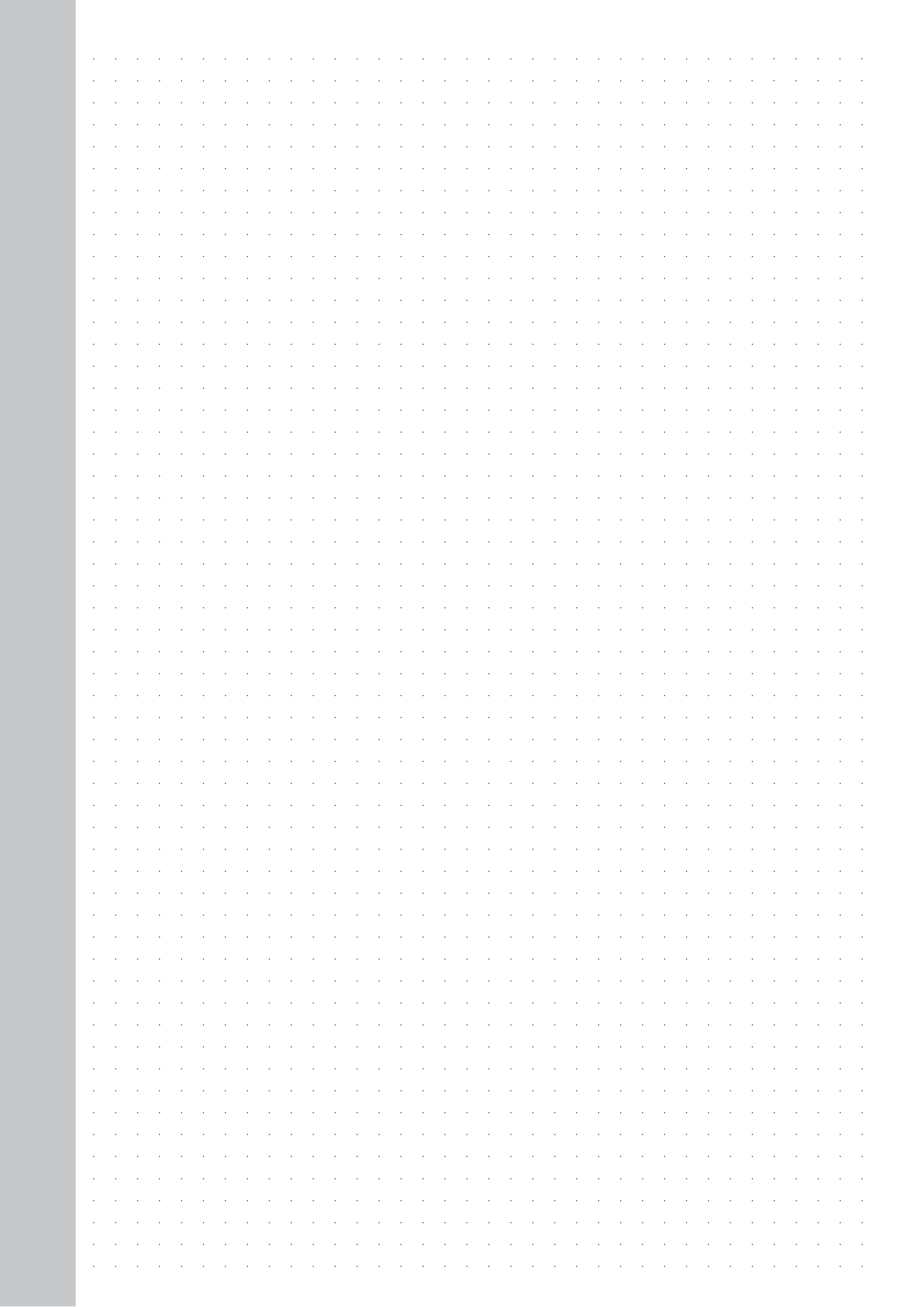
Terminal Blocks

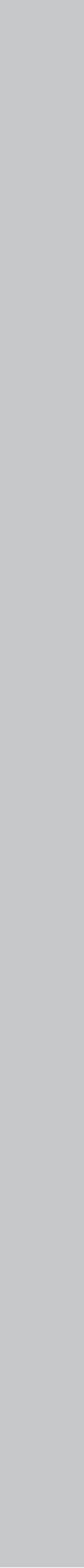
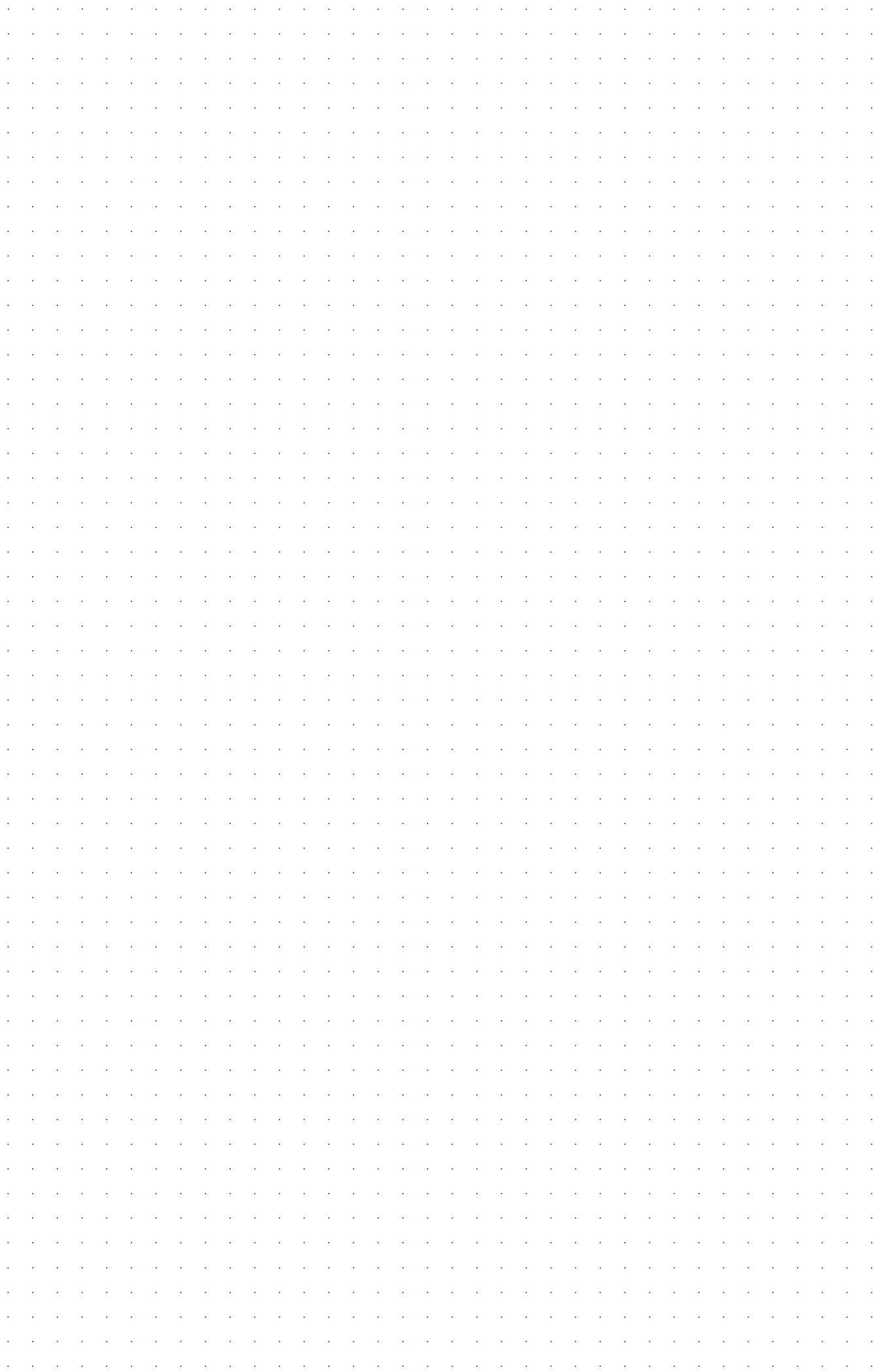
Pedal Switches

Limit Switches

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Illustration	Dimensions	Description	Type
		<p>Emergency Stop</p> <p>Series: mYnitron Panel cut-out: Ø 16.2 mm Connection type: Faston terminals 2.8 mm x 0.5 mm Contact equipment: 2NC foolproof: Yes switching position indicator: Yes anti-lock collar: No release: twist right or left mushroom head: red front bezel: yellow</p>	<p>YVOO</p>
		<p>Emergency Stop</p> <p>Series: mYnitron Panel cut-out: Ø 16.2 mm Connection type: Faston terminals 2.8 mm x 0.5 mm Contact equipment: 2NC + 1NO foolproof: Yes switching position indicator: Yes anti-lock collar: No release: twist right or left mushroom head: red front bezel: yellow</p>	<p>YVOOI</p>
		<p>Illuminated Emergency Stop</p> <p>Series: mYnitron Panel cut-out: Ø 16.2 mm Connection type: Faston terminals 2.8 mm x 0.5 mm Contact equipment: 1NC foolproof: Yes switching position indicator: Yes anti-lock collar: No release: twist right or left mushroom head: red front bezel: yellow</p>	<p>YVLO</p>
		<p>Illuminated Emergency Stop</p> <p>Series: mYnitron Panel cut-out: Ø 16.2 mm Connection type: Faston terminals 2.8 mm x 0.5 mm Contact equipment: 2NC foolproof: Yes switching position indicator: Yes anti-lock collar: No release: twist right or left mushroom head: red front bezel: yellow</p>	<p>YVLOO</p>









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