



Faszination Elektrotechnik





Product Overview

Control units

Panel mount jacks

RFID

Fielbus interfaces

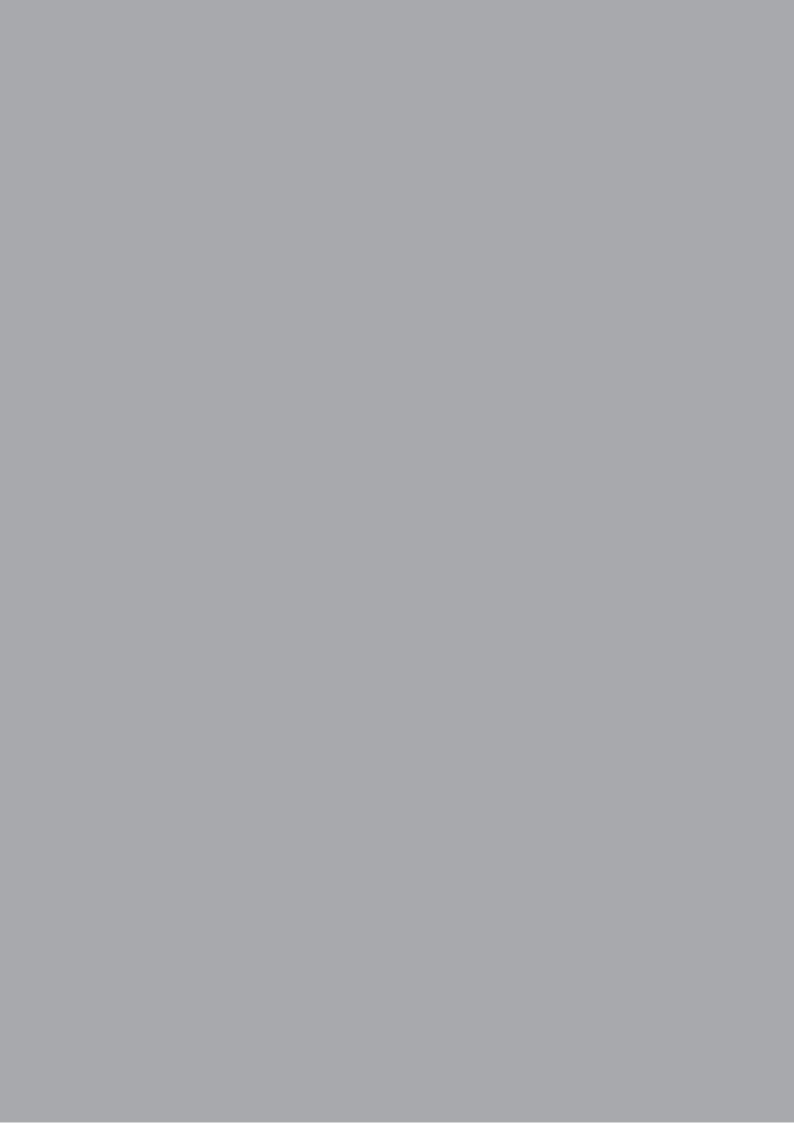
Enclosures

Terminal blocks

Pedal switches

Limit switches

9-0-1 Customised solutions



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<u> ZODC</u>

Tradition and Progress

The company Schlegel stands for innovation, good design and quality "Made in Germany". From tradition the best has been taken over, however, development has never stopped though.

To actively shape the future, Schlegel has continuously developed new products for new applications. Thus in-house production includes not only control units, pilot lights and terminal blocks but also emergency-stops, pedal switches, membrane and short-stroke pushbuttons, enclosures, limit switches, operator control panels and functional modules. Moreover, electronic solutions with integrated fieldbus technology are part of the product portfolio, just as customer-specific solutions for individual fields of application.

The products are all-over made in Germany, from development and toolmaking to final production. The company purchases the necessary raw materials on the world market. Schlegel goes global. Whether in the car wash, the fire engine, in laboratory techniques, on ships, in trains or international airports - Schlegel control units are in demand all over the world.

In addition to sales branches in Austria and Singapore, Schlegel maintains industrial representatives in 88 countries. The export share is 45 percent but is likely to be closer to 70 percent, if it is considered that German customers also sell their equipment and machines on international markets.



Good Design

The Schlegel products have received more than 90 national and international design awards. Fact is that decades ago Schlegel has realised that technical functionality and operator convenience make the switch or pushbutton the "calling card" of a device. They

are the link between human and machine and are used wherever a command is triggered at the touch of a button. The shape thereby shall support the function.





Schlegel Leipzig

The company was founded in Leipzig on 10th March 1937 under the name Monopol. In 1951 it was renamed as DUX Elektrotechnische Fabrik.

Different combines were successively responsible for DUX. In 1980 the company merged into the VEB combine Robotron.

With effect from 30th June 1990 DUX Schaltgeräte GmbH was registered again as independent enterprise.

On 1st April 1993 the company was sold to Georg Schlegel GmbH & Co. KG, with the assistance of the Treuhand.

In the initial years the company developed, produced and sold installation technology, starting with insulated indicator devices with drop indicator technology over doorbell buttons and panels to signal bells, door contacts and limit switches. Later on the company specialised in components for industrial circuit control systems. During the last years particular attention was paid to the production and development of control units, enclosures and limit switches as well as to the production of control panels for the building automation sector. Another focus is the creation of customer-specific solutions. Here the company responds more and more to individual requirements, creating the desired solution in close collaboration with the customer. Our advantage is being able to resort to many components out of the Schlegel modular construction systems in order to provide a cost-efficient solution to the customer.

Another important aspect is the design, on which we have been focussing more and more during the last years. A typical example

are our control units of the DUX-Basic series. Since November 2005 Schlegel Leipzig is certified according to DIN EN ISO 9001.
In July 2013 DUX was renamed as Schlegel.



Subsidiary in Austria

The Georg Schlegel Vertriebsges.m.b.H, as it is called today, was founded on 1st February 1980 as Schlegel-Sarel Vertriebsges.m.b.H.

Just as the two company names imply, this combination of firms was a very good basis for selling products like switch cabinets and the necessary components, such as terminal blocks and control units.

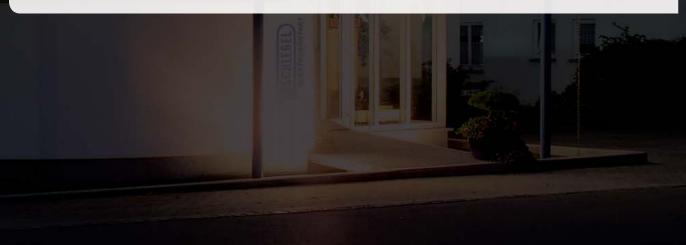
A quick growth of both companies affirmed this assumption, so that Schlegel-Sarel was converted into today's Georg Schlegel Vertriebsges.m.b.H, being a 100% Schlegel subsidiary. From the original location in Vienna-Mauer with a storage space of 10 m² and two employees Schlegel Austria quickly grew up to a sales office with 15 employees storing a large assortment of products in an area of 150 m². We supply our products from there to many reputable commercial and industrial enterprises. We also manufacture complete pushbutton panels, as well as customised terminal block assemblies and control stations.

Schlegel Österreich is responsible for sales and marketing in the following countries:

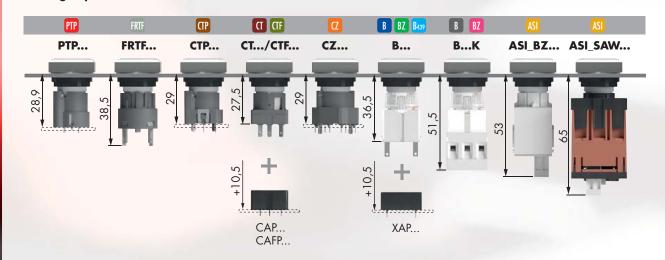
Bosnia-Herzegovina, Macedonia, Czechia, Hungary, Serbia, Slovenia, Croatia, Slovakia, Romania and Bulgaria.

The high demand as to quality, the outstanding design, the proverbial Swabian reliability and the fair pricing for the products from Schlegel are being appreciated by a constantly increasing customer base.



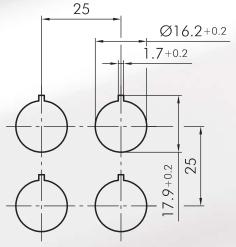






Cutout Dimensions

Min. mounting grid 25×38 mm when using external nameplate holders.

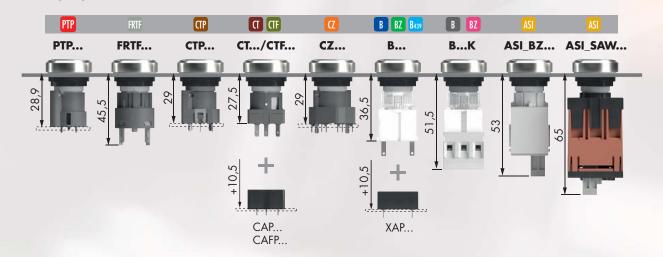




- 01 Pushbutton Heads
- Emergency-Stop Heads Mushroom Heads
- 03
- Knob Set for Potentiometers
- Selector Heads
- 05 06 Toggle Heads

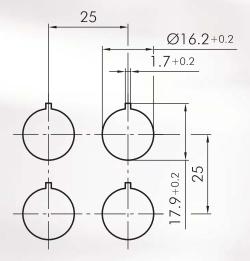
- 07 Key Actuators
- 80 Buzzers
- 09 Pilot Light Heads / Pilot Lights





Cutout Dimensions

Min. mounting grid 25×38 mm when using external nameplate holders

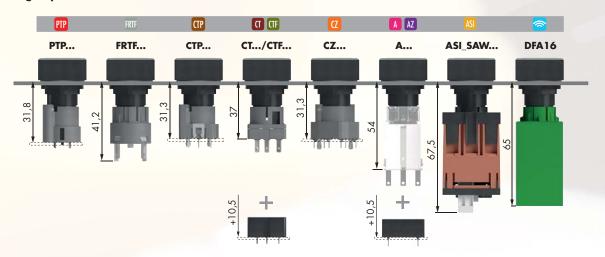




- Pushbutton Heads
- Emergency-Stop Heads Mushroom Heads 02
- 03
- **Knob Set for Potentiometers**
- Selector Heads
- 05 06 Toggle Heads

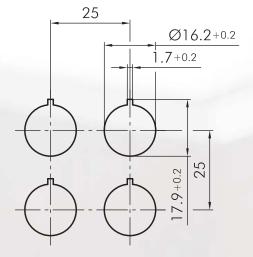
- 07 **Key Actuators**
- 08
- Buzzers Pilot Light Heads / Pilot Lights





Cutout Dimensions

Min. mounting grid 25 x 38 mm when using external nameplate holders





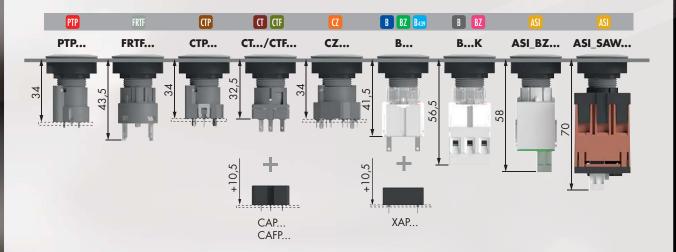
- Pushbutton Heads
- Emergency-Stop Heads Mushroom Heads 02
- 03
- Knob Set for Rotary Switches/Potentiometers
- 05 Selector Heads
- Toggle Heads

- 07 **Key Actuators**
- 80
- Buzzers Pilot Light Heads / Pilot Lights 09

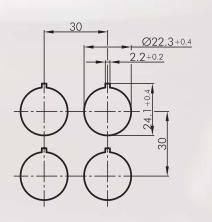


Z

Protection class:



Cutout Dimensions



RRJDTLR 47.5+0.40 12.5 12.5 47.5+0.40



- 01 Pushbutton Heads
- Emergency-stop Heads Knob Set for Potentiometers 03
- Selector Heads
- Key Actuators 05
- 06 Buzzers

- Panel Mount Jacks
- Pilot Light Heads / Pilot Lights



RONTRON-Q-JUWEL

Front dimensions:

28 x 28 mm

Panel cut-out:

Ø 22.3 mm

Front be∠el height:

2 mm

Travel:

Protection class:

3 mm

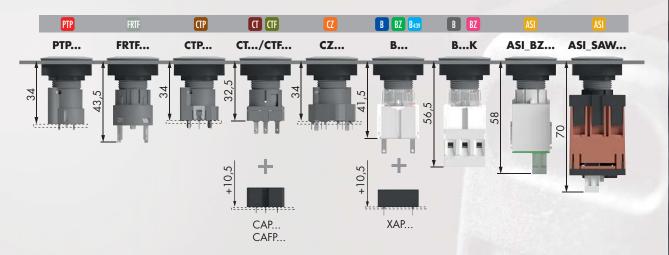
Degree of protection:

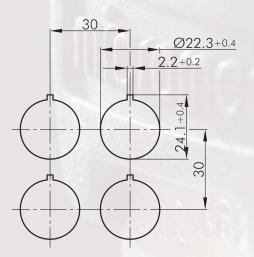
IP65













- 01 Pushbutton Heads
- 02
- Emergency-Stop Heads Knob Set for Potentiometers 03
- Selector Heads
- 05 Key Actuators
- 06 Buzzers

- Panel Mount Jacks
- Pilot Light Heads / Pilot Lights





SHORTRON®

Front dimensions: \emptyset 28 mm

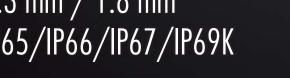
Panel cut-out: Ø 22.3 mm

front be∠el height: 2 mm

1.8 mm / 1.8 mm

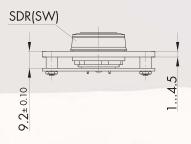
Degree of protection: IP65/IP66/IP67/IP69K

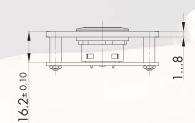
Protection class:

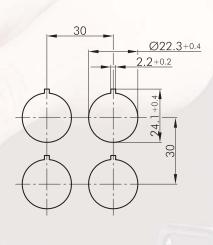


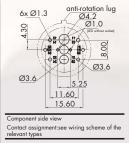
















- **Pushbuttons** Tactile Pushbuttons
- Capacitive Pushbuttons
- Emergency-Stop Buttons Selector Switches
- 04
- 05 Key Switches

- 06 Buzzers
- 07 Pilot Lights







mYnitron®

Front dimensions:

Panel cut-out:

Front be∠el height:

Degree of protection:

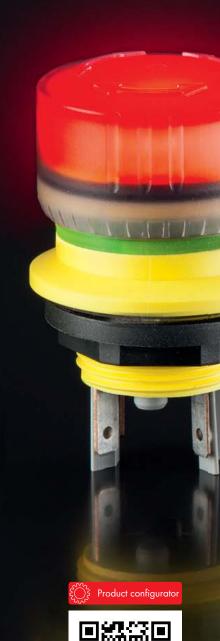
Protection class:

Ø 23.5 mm

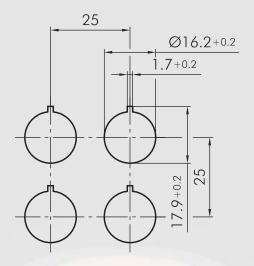
Ø 16.2 mm

4 mm

IP66/IP67/IP69K









- Pushbutton HeadsEmergency-Stop ButtonsEmergency-Stop Buttons active/inactive



RX-JUWEL

Front dimensions:

Panel cut-out:

Front be∠el height:

Travel:

Degree of protection:

Protection class:

Ø 28 mm

Ø 22.3 mm

2,6 mm

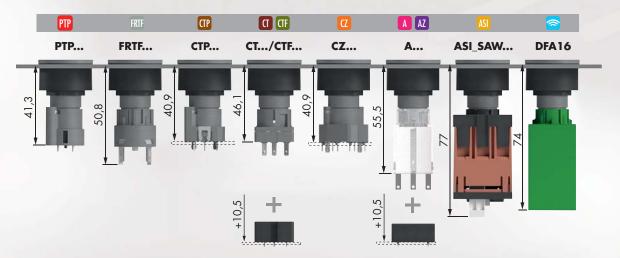
6 mm

IP65

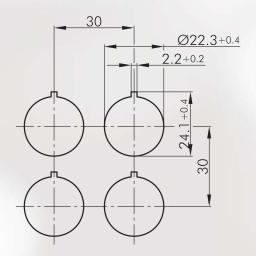


Product configurator





Cutout Dimensions

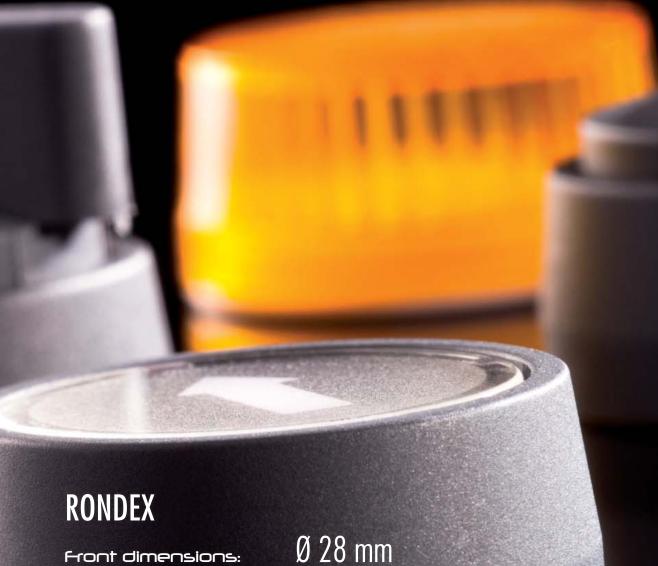




- Pushbutton Heads
- Emergency-Stop Heads Knob Set for Potentiometers 03
- Selector Heads
- **Key Actuators**
- 05 06 Buzzers

07 Pilot Light Heads / Pilot Lights





Front dimensions:

Panel cut-out:

Ø 22.3 mm

Front be∠el height:

12 mm

Travel:

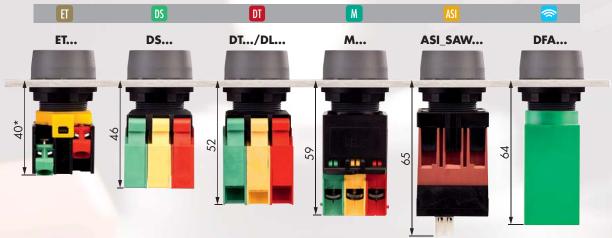
6 mm

Degree of protection:

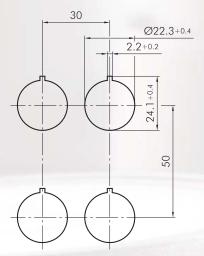
IP65

Protection class:





* ETR2 61mm, ETLR 50mm, ETLR2 70mm, EL9R 36mm

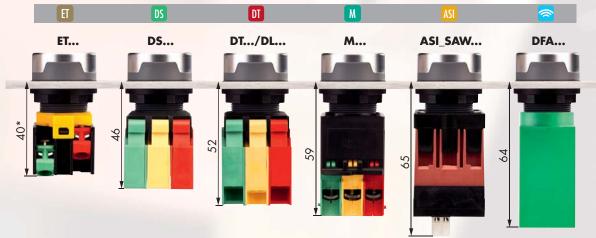




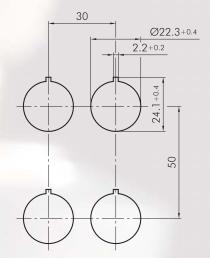
- 01 Pushbutton Heads
- Emergency-stop Buttons Mushroom Heads 02
- 03
- **Knob Set for Potentiometers**
- Selector Heads/Knob Set for **Rotary Switches**

- Toggle Heads
- 07 Key Actuators
- 08 Buzzers
- Pilot Light Heads / Pilot Lights





* ETR2 61mm, ETLR 50mm, ETLR2 70mm, EL9R 36mm





- Pushbutton Heads
- Emergency-stop Heads Mushroom Heads 02
- 03
- **Knob Set for Potentiometers**
- 05 Selector Heads
- Toggle Heads

- 07 **Key Actuators**
- 80
- Buzzers Pilot Light Heads / Pilot Lights 09





Front dimensions:

Panel cut-out:

Front be∠el height:

Travel:

Degree of protection:

Protection class:

Ø 28 mm

Ø 22.3 mm

2 mm

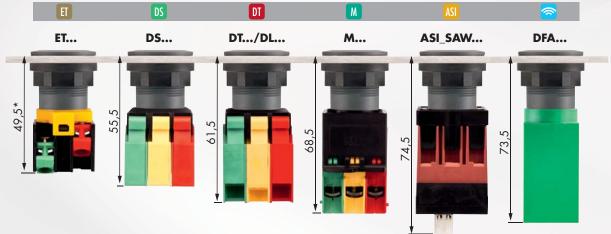
6 mm

IP65/IP67

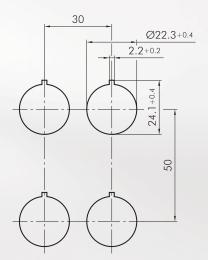








* ETR2 70.5mm, ETLR 59.5mm, ETLR2 79.5mm, EL9R 45.5mm





- Pushbutton Heads
- 02 Emergency-Stop Heads Selector Heads
- Key Actuators
- Panel Mount Jacks Pilot Light Heads
- 05 06



DUX-Basic

Front dimensions:

Panel cut-out:

Front bezel height:

Travel:

Degree of protection:

Protection class:

Ø 30 mm

Ø 22.3 mm

12 mm

6 mm IP65





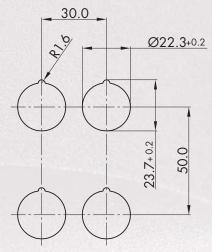






* ETR2 64mm, ETLR 53mm, ETLR2 73mm, EL9R 39mm

Cutout Dimension





- Pushbutton Heads
- Emergency-Stop Heads Mushroom Heads 02
- 03
- Selector Heads
- 05 06 Toggle Heads Key Actuators

07 Pilot Light Heads / Pilot Lights



QUARTEX®-R

Front dimensions:

Panel cut-out:

Front be∠el height:

Travel:

Degree of protection:

Protection class:

30 x 30 mm

Ø 22.3 mm

12 mm

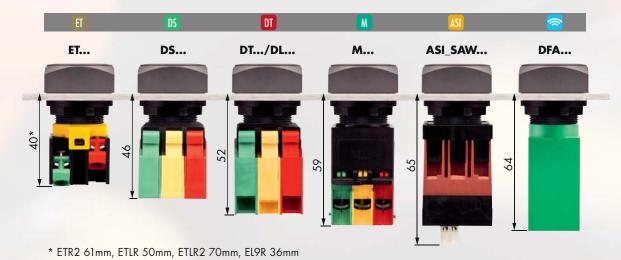
6 mm

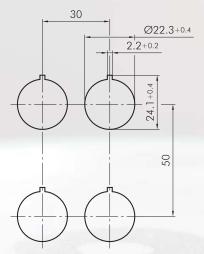
IP65













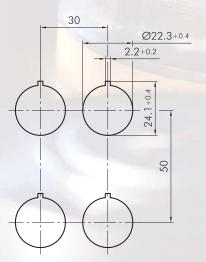
- Pushbutton Heads
- Emergency-stop Buttons Mushroom Heads 02
- 03
- **Knob Set for Potentiometers**
- Selector Heads/Knob Set for Rotary Switches

- Toggle Heads
- 07
- Key Actuators Pilot Light Heads / Pilot Lights 08





* ETR2 61 mm, ETLR 50 mm, ETLR2 70 mm, EL9R 36 mm





- Pushbutton Heads
- Selector Heads Key Actuators
- 02 03
- Pilot Light Heads



tested down to

KOMBITAST®-R-JUWEL

Front dimensions:

Ø 36 mm

Panel cut-out:

Ø 30.5 mm

Front bezelheight:

2.7-mm

Travel:

6 mm

Degree of protection:

IP66/IP67/IP69K

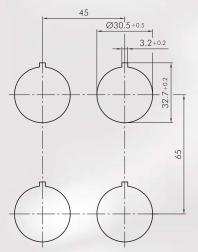
Protection class:







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



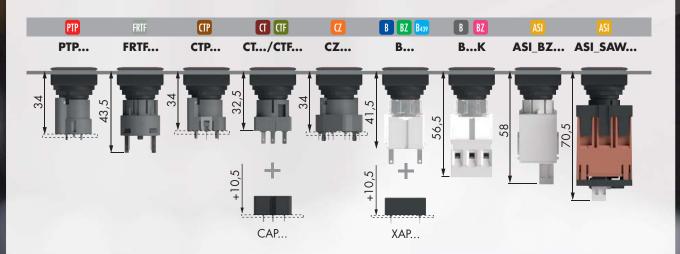


- Pushbutton Heads
- 02
- Emergency-Stop Heads Knob Set for Rotary Switches/Potentiometers 03
- Selector Heads
- 05 06 Toggle Heads
- Key Actuators

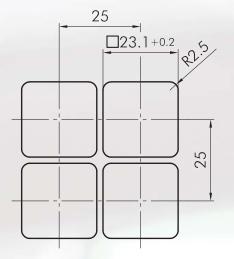
- Panel Mount Jacks
- Pilot Light Heads / Pilot Lights



Mounting Depth Dimensions



Cutout Dimensions





- Pushbutton Heads
- 02
- Emergency-Stop Heads Knob Set for Potentiometers 03
- Selector Heads
- Key Actuators
- 05 06 Buzzers

- Panel Mount Jacks
- Pilot Lights



QUARTRON-JUWEL®

Front dimensions: 27 x 27 mm

Panel cut-out: 24 x 24 mm

Front bezel height: 2.5 mm

Travel: 6 MM

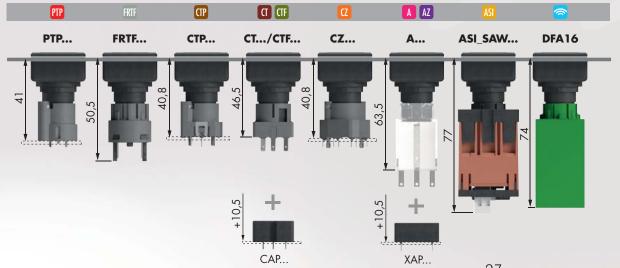
Degree of protection: 1965

Protection class:

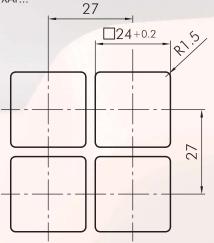




Mounting Depth Dimensions



Cutout Dimensions





- 01 Pushbutton Heads
- Emergency-Stop Heads Mushroom Heads 02
- 03
- **Knob Set for Potentiometers**
- Selector Heads Toggle Heads
- 05 06

- 07 **Key Actuators**
- 08
- Buzzers Pilot Light Heads / Pilot Lights 09



QUARTEX®-R-JUWEL

Front dimensions: 30 x 30 mm

Panel cut-out: 26 x 26 mm

Front be∠el height: 6 MM

Travel: 6 mm

Degree of protection:

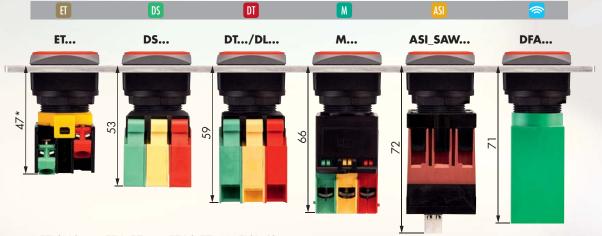
Protection class:





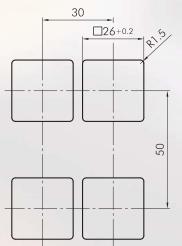


Mounting Depth Dimensions



* ETR2 68 mm, ETLR 57 mm, ETLR2 77 mm, EL9R 43 mm

Cutout Dimensions





- 01 Pushbutton Heads
- 02
- Emergency-stop Buttons Knob Set for Potentiometers 03
- Selector Heads/Knob Set for Rotary Switches Toggle Heads
- 05

- **Key Actuators**
- Pilot Light Heads / Pilot Lights

Safe and Optically Appealing Emergency-Stop Buttons

The user can choose from a wide range of TÜV certified emergency-stop buttons of Schlegel for panel cut-outs of different shapes and dimensions (16.2 mm, 22.3 mm, 30.5 mm) which can be combined with both, the standard and ASi contact units.

The actuators are well-known for their modern and attractive design combining mechanical robustness and outstanding functionality, featuring e.g. a clearly visible switching position indicator, a twist release (in either direction) or pull release and tightness from IP65 up to IP69K, depending on the model.

Safety Contact Blocks for Emergency-Stop Buttons

Even redundant, secure emergency-stop chains are ineffective unless the contact block is accurately connected with the emergency-stop button. The **safety contact blocks** for emergency-stops of Schlegel Elektrokontakt are the response to this danger that may occur e.g. as a result of a negligent assembly or a mechanical damage.

The safety contact blocks for emergency-stops acc. to EN60947-5-5 and EN13850 ensure that in such a situation the emergency function is automatically activated and the installation is switched off immediately. It can only be restarted after successful trouble-shouting. The contact blocks are available as a one or two channel solution with screw connections, Faston terminals, Cage-Clamp or push-in connection and do have positive opening contacts acc. to IEC60947-5-1. The high-quality contact elements allow reliable switching even in case of low currents (5mA at 24V or less). They are available as conventional contact blocks as well as for AS-Interface (Safety@Work).



Automatic switch off on separation of the contact block from the emergency-stop button

Enclosure-Mounted Emergency-Stop and Reset Button

Pre-assembled emergency-stop and reset buttons of Schlegel are available in many different versions, there is a solution for every application.



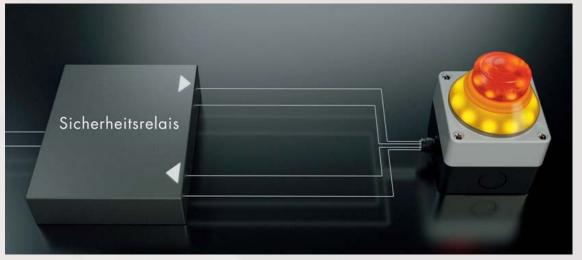
Emergency-Stops With Illuminated Status Indication Active/Inactive

The functional principle: If the plant part equipped with the fix mounted emergency-stop – for example as a module of a production line – is in operation, the actuator is active and signals its readiness for operation by a red illumination. If the module is disconnected from the production line, the emergency-stop is inactive, is no longer illuminated and remains grey. Thus, in case of emergency an inadvertent operation of the inactive emergency-stop is being significantly reduced, as it is no longer identified as emergency-stop. The Schlegel active/inactive emergency-stops fulfil the requirements of the standard DIN EN ISO 13850:2015.

Active illuminated emergency-stops, like e.g. SIL_QRBDUVOOM125 are additionally equipped with an integrated diagnostic unit. It steadily monitors the illumination status and thus ensures the perceptibility of an active emergency-stop. If there is a total or only partial failure of the illumination the emergency-stop signal is activated automatically and the installation is put into the safe status.

The active illuminated emergency-stop buttons are available for the following panel cut-outs:

- → Ø 16.2 mm
- → Ø 22.3 mm
- plug & play solution in an enclosure with mounting plate and M12 connector for a quick and easy installation



Functional principle of SIL_QRBDUVOOM125 with diagnostic unit

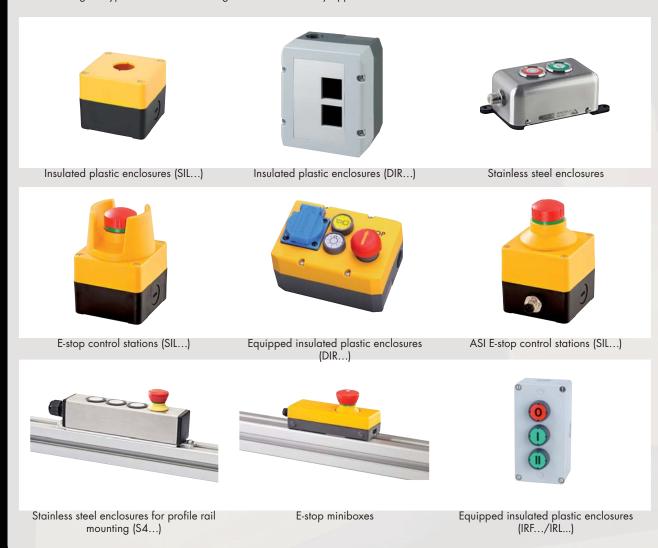


Quick perceptibility in active condition

Enclosures

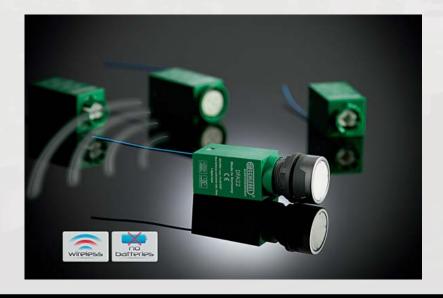
Schlegel enclosures offer much space inside safeguarding your control units to an optimum. The enclosures are made of plastic or stainless steel.

The wide range of types allows to find the right enclosure for every application.



Battery-free Wireless Pushbuttons and Limit Switches

For the wireless pushbuttons and limit switches the energy being needed for the transmission of the signal is generated by the switching operation itself. Thus the modules are self-sustaining and of low-maintenance.



Modular Bus Operating Concept

The modular operating concept allows to integrate an existing operating concept modularly into an available bus system. The modular operating concept consists of two basic modules: The bus-specific basic module and the bus-independent expansion module. Thus, up to 128 inputs for control units as well 128 outputs for status indication of the control units are possible.

For the modular operating concept the following bus systems are being supported:

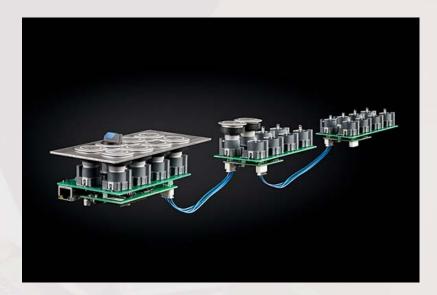
- → AS-Interface
- → Canopen
- → Profibus
- → Profinet
- → EtherCAT
- → Ethernet IP
- → Powerlink

For the modular bus concept the following bus systems are under development:

- → CC-Link IE
- → Sercos
- → VARAN

Customised, Fast, Cost-Effective

If your design plans cannot be implemented with the standardised modules, we can respond to your special design requirements anyway. For customised designs we resort to sub-modules of the modular operating concept by adapting the carrier board with the command points (PCB with individual contact blocks) according to your design proposal, consequently, the cost-optimised concept also taking effect here.



Panel Mount Jacks

available in numerous versions

For detailed information, please visit our website www.schlegel.biz or refer to our product catalogue.



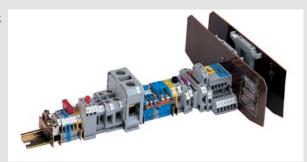
Terminal Blocks

Schlegel offers standard terminals for industrial application, particularly for electric machine control systems, for switchgear and controlgear, distribution and measuring systems, as well as for the lift and equipment construction. The terminals are suitable for high and low voltage applications for DC and AC. They are featuring short assembly times and small dimensions.

With a complete documentation of the production processes acc. to ISO 9001-2008 we ensure the highest quality standards. A precise mould construction is the prerequisite for the production of high-quality terminals. The necessary production tools have, therefore, being manufactured in-house for many years already in order to retain control on one of the most important quality criterias.

Schlegel terminal blocks are available with the following connection types:

- Screw connections (with the "OSK Original Schlegel Clamping System")
- Spring-cage connections
- → IDC fast connection technology
- Flat plug connections



"OSK - Original Schlegel Clamping System"

On the screw-type terminals with wire protection bracket the conductors are pressed onto the basis of the conductive clamping body by the lower foot of the wire protection bracket which is fastened by a screw. This system is called the "OSK" system (Original Schlegel Clamping System), because it is unique in the terminal market. This construction ensures the so-called "Six Securities":



Secure Wire Insertion due to:

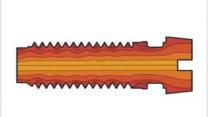
- insulating walls next to wire insertion opening of the metal body,
- reliable opening of the clamp when loosening the screws (because wire protection bracket snap-fits below screw head) and
- limitation of clamping space by the lower arm of the wire protection bracket, thus no slipping of single wires or strands.



Security against screw loosening under vibration by the resilient wire protection bracket that presses against the screw head (this makes the screws captive).



Direct clamping pressure transmission onto the wire at full bearing of the screw and protection of the wire (no damaging or piercing by the screw)



High tightening torque The Schlegel terminals have rolled screws which, contrary to turned screws, feature a high-compressed structure with unbroken fibres in the thread area. The very high mechanical strength properties are achieved by thread rolling and assure high tightening forques



Security against tilting of the clamp (the solid metal clamping body prevents the connection "cages" from tilting when using thin wires)



Security against wire loosening thanks to resilient wire protection brackets and elastic deformation properties of the clamping body

The Universal Terminal Block Range at a Glance



Feed-through Terminals

For cross sections from 0.5 to 240 mm² (all kinds of conductors). Also available for railless assembly.

Connection Types:

- → Screw connections featuring the "OSK system"
- → Spring-cage connections
- →IDC connections
- → Flat plug connections (6.3 mm)



Fuse Terminals

Terminals with integrated fuseholder facilitate the protection of cables such as on photovoltaic systems (Junction Boxes). Fuseholders are available with bayonet connector, with pluggable insulator handle and another variant accepts automotive fuses.

Connection Types:

→ Screw connections featuring the "OSK system"



Neutral Wire Separator Terminals

for current circuits acc. to VDE 0108, allow testing of the insulation without disconnecting the neutral from the neutral busbar.

Connection Types:

→ Screw connections featuring the "OSK system"



Separator Terminals

Serve to disconnect current circuits by means of a captive disconnecting plug – no need to disconnect the conductor. Other functions are possible by using special accessories such as optocoupler, freewheeling diode, diode plug, adjustable resistance plug or bridge rectifier plug.

Connection Types:

→ Screw connections featuring the "OSK system"



Initiator Terminals

The interconnection of initiators requires special terminals. Featuring a width of 6 mm, the initiator terminals have connections to supply the initiator with the necessary power (+ and -). These connections are interconnected by comb-type jumpers. The output signal passes via a third connection.

Connection Types:

→ Screw connections featuring the "OSK system"



Earth Connection Terminals

Earth connection terminals are feed-through terminals providing contact to the support rail which serves as earthing bar. The special design (only referred to the version with screw connections) creates a 3-way clamping on the rail once the conductor is connected.

Connection Types:

- → Screw connections featuring the "OSK system"
- → Spring-cage connections
- → IDC connections



Pickaback Terminals

A feed-through terminal with the replica of a support rail on its topside. Here on this upper level, any other terminals can be placed, even with a different width or foot for 15 mm support rail. This double-level arrangement reduces the length of terminal block rail to the half.

Connection Types:

→ Screw connections featuring the "OSK system"



Combi Terminals

3-wire terminal with particularly low-profile design for the phase, neutral and PE conductor with fixture and disconnecting slider for the neutral busbar. The support rail also serves as earthing bar. The clamping point for the neutral is marked blue, for the PE conductor it is green/yellow.

Connection Types:

→ Screw connections featuring the "OSK system"



Distribution Terminals

Three-level wiring terminal particularly suitable for installation purposes, with connections for the phase, neutral and PE conductor – terminal width only 6 mm. A slider is available to disconnect the neutral from the neutral busbar. The support rail serves also as earthing bar.

Connection Types:

→ Screw connections featuring the "OSK system"

Limit Switches

Application:

- → for automated process control (e.g. door monitoring)
- → for movement limitation in processing and manufacturing machines, lifts, ships, conveying systems
- → as trigger switch in safety and alarm systems

A multitude of actuators provide high flexibility to suit each particular case of application. The various combination possibilities help to optimally solve your control problems.

Distinctive Features of the EK Series:

- → impact-resistant, hardly inflammable plastic housing
- → reliable contacting
- → easy and time-saving exchange of the actuators

Construction

The limit switches of the EK... series consist of a basic element with plunger axle, plunger seal, locking bolt, cover with gasket; the cover being fixed by a screw. Depending on the application, the user can select from a variety of actuators which are rotable in accordance with their respective operating direction by $4 \times 90^{\circ}$.

Exceptions are actuators forming a firm connection with the drive shaft, such as the push button, pull axle, roller plunger and adjustable roller plunger.

There are two different contact types available

- → slow-action contact EKU1
- → snap-action contact EKU1SPR

Optionally, the switch can be supplied with switching bridge with double contact interruption for contacts of the same potential.

For more limit switches and detailed information, please refer to www.schlegel.biz and to our product catalogue.



RFID system

The increasing demand for electronic access authorisation for industrial applications requires an access concept which is not possible to handle with standard key switches. The Schlegel RFID system is a wireless communication technology for an easy, fast and unambiguous identification of persons. The RFID transponder, also named tag, replaces the key and includes special data which can be read by a reader via electromagnetic waves and which will then be evaluated in the control device. Thus, persons or groups can be unambiguously assigned and the relating access authorisations and levels will be enabled on the machine or installation.

Advantages

- → convenient fast and easy operation, passwords no longer necessary
- → reliable robust and durable, as there are no mechanical wear parts in the system
- → flexible access authorisation can be defined and changed individually
- → safe improves the operational safety of machines and installations
- → easy easy assembly for panel cut-out Ø 22.3 mm (Ø 30.5 mm with accessory)
- design appealing design

Application fields

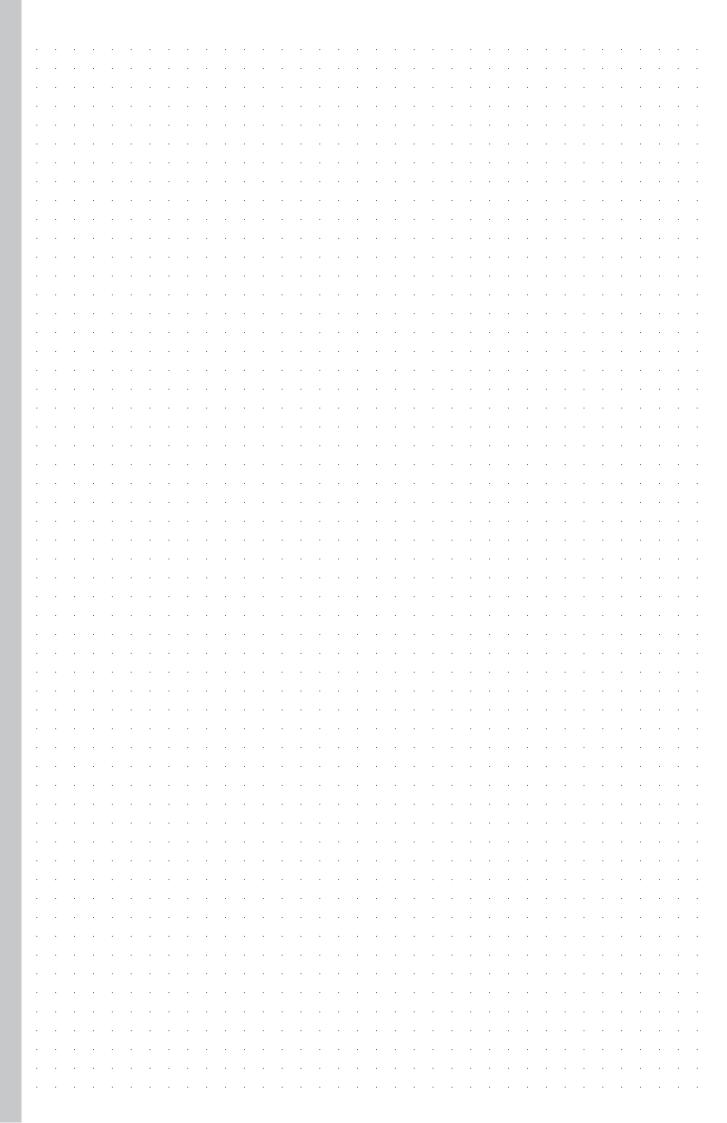
- > controlled personalised machine access with details access documentation
- → individual machine operation according to the access authorisation for groups and individual persons
- → easy and safe realisation of an operation mode switch

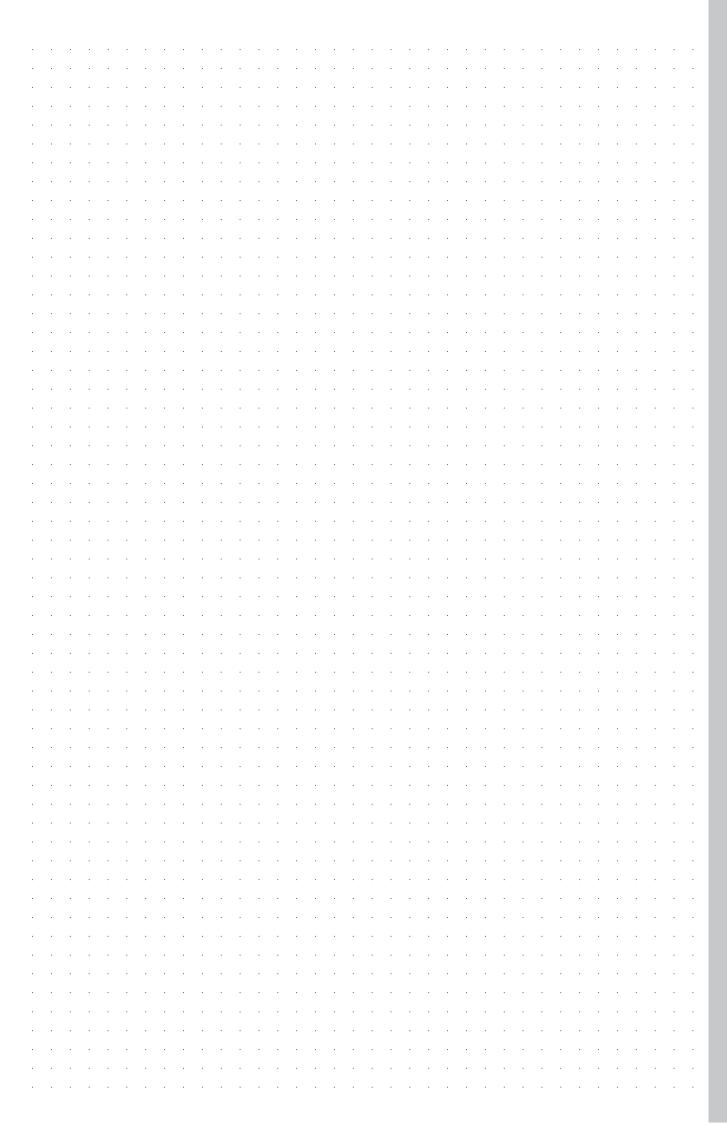


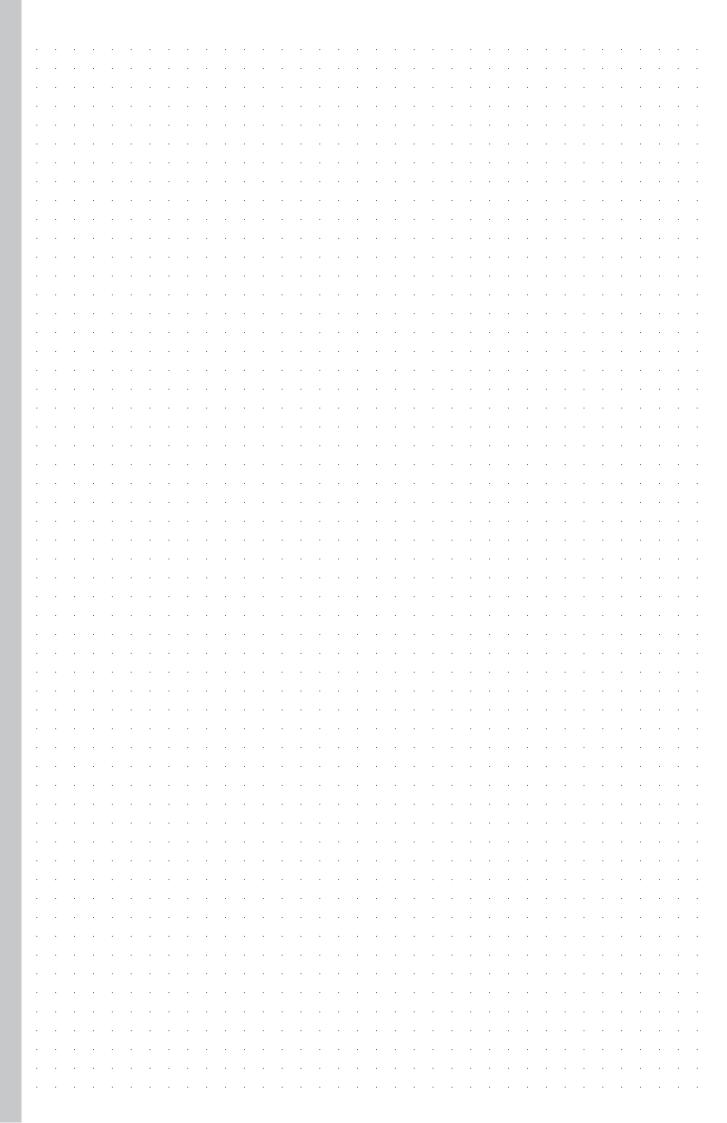
Pedal Switches

Robust light metal enclosure. Actuation is done by a red pedal with anti-slip crosswise ribbing which covers the whole switch. For the reliable protection against dust and humidity acc. to IP65 the pedal is equipped with an oil and chemical resistant rubber membrane which is protectively placed. A stroke limitation prevents a mechanical overload. The modular contact blocks inside allow many different contact configurations.









Range of Contact Blocks

→ Electric contact blocks with PCB-mount terminals

Туре	Contact configuration	Data acc. to VDE 0630		Data acc. to I	EC 60947-5-1	Max. switching capacity
		Ue	le	Ue ~	le	
CTP	1 inverter					48V AC/DC 100mA
CZ	12 inverters					48V AC/DC 100mA
PT	NC / NO			240V / 12	20V 1.5A / 3A	120V~ / 3A 240V~ / 1.5A
P	NC / NO			240V / 12	20V 1.5A / 3A	120V~ / 3A 240V~ / 1.5A

→ Electric contact blocks with Faston terminals

AZ

BZ CTF

α

E

M

DS DT

Туре	Contact configuration	Data acc. to VD Ue	E 0630 le	Data acc. to IEC 60 Ue ~)947-5-1 le	Max. switching capacity
AT, AF	NC/NO	250V~	6(3)A	250V	3A	250V~ / 6(3)A
AZ	NC/NClb/NO/ NOem/CC	250V~	6(4)A	250V	3A	250V~ / 6(4)A
BF	NC/NO	250V~	6(4)A	250V	1.5A	250V~ / 6(4)A
B439	2NC/2NO			60V	3A (inductive)	60V~/3A and 60V DC/1A
BZ	NC/NO	250V~	6(4)A	250V	1.5A	250V~/6(4)A
CTF	1 inverter					48V AC/DC 100mA
CT	12 inverters					48V AC/DC 100mA
FRTF	NC / NO			240V / 120V	1.5A / 3A	120V~ / 3A 240V~ / 1.5A

→ Electric contact blocks with screw connection

Туре	Contact configuration	Data acc. to VDE 0630		Data acc. to IEC 60947-5-1		Max. switching capacity
		Ue	le	Ue ~	le	
BFK	NC/NO	250V~	6(4)A	250V	1.5A	250V~ / 6(4)A
BZK	NC/NO	250V~	6(4)A	250V	1.5A	250V~/6(4)A
ET	NC/NO	250V~ / 440V~	10(6)A / 6(3)A	250V /400V	5A / 3A	250V~ / 10(6)A 440V~ / 6(3)A
MT	NC/NClb/NO/ NOem/NO- NOem/NOem- NClb/NC-NOem	250V~ / 440V~	16(10)A / 10(6)A	250V / 440V	3A / 1.6A	250V~ / 16(10)A 440V~ / 10(6)A

→ Electric contact blocks with spring-cage connection resp. push-in connection

Туре	Contact configuration	Data acc. to VDE 0630		Data acc. to IEC 60947-5-1		Max. switching capacity
		Ue	le	Ue ~	le	
DS	INC/INO	250V~ / 400V~	16(10)A / 10(5)A	240V / 380V	3A / 1.9A	250V~ / 16(10)A 400V~ / 10(5)A
DT	NC/NClb/NO/ NOem	250V~ / 400V~	16(10)A / 10(5)A	240V / 380V	3A / 1.9A	250V~ / 16(10)A 400V~ / 10(5)A

→ Battery-free transmitter modules for wireless pushbuttons

The transmitter modules enable the implementation of battery-free radio transmission of a pushbutton signal, particularly in the building technology, the industrial automation, the automotive industry and others. The required energy is provided by a electrodynamic power generator using the energy of the key travel.

→ Contact blocks (slaves) for AS-Interface

→ Modular bus operating conecept

CANopen, Profibus, EtherCAT, Profinet I/O, Ethernet IP, AS-Interface



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