





Limit Switches		
>> ECU1...series	page	677
>> Limit switches for AS-Interface	page	683
>> K...series	page	689
>> GW...series	page	695
>> Accessories	page	701

About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index



Description

Definition

Limit switches are also dealt under position switches or limit switches. However, behind all these terms hides a switchgear which is primarily used to protect man and machine.

Characteristics of DUX Limit Switches

These limit switches offer quite a number of actuators to be selected depending on the required mode of operation. They are used in auxiliary and pilot circuits and are excellently suitable for the control and movement limitation, e.g. in machine tools and processing machines, lifts, conveyor systems, vehicles, cranes, technical building equipments, crane systems as well as trigger switches in safety and alarm systems, and many more. The limit switches are available in various designs and materials and can such be used in different fields of application and environmental conditions. In order to meet the diverse equipment controlling requirements, a multitude of contact configurations can be implemented to provide optimal solutions for nearly all mechanical switching requirements. The variety of actuators, which are rotatable by 90°, enable high flexibility for each particular case of application.

Set-up and Operation of Limit Switches

Limit switch and plunger drive should only be used when the switching point is subject to a tight tolerance range. The actuation movement should preferably be in the same direction as the plunger movement. The limit switches are constructed in a way that they may in no case be used as a mechanical limit stop. The reset force for other movable actuating appliances (such as flaps, doors, etc.) must not be taken from the limit switch actuator, because it was only designed for the plunger reset of the limit switch. In order to guarantee an optimal switching action the max. operating angles of the different actuators must be observed. The cam of the respective machine must actuate the plunger only in the permissible level. The over-travel of the actuator

may only be used as shown in the relative switch travel diagram. It is not permitted to shorten the working travel by operating the actuator in advance. The reset movement of the actuator must be guided by the return movement of the machine's cam, i.e. the actuator must not spring back freely to its original position.

The length of the actuating cam must be selected so that an actuating time with double safety is achieved. If e.g. the response time of the operated auxiliary contactor to its latching position is 15 ms, the min. actuating time of the limit switch should be 30 ms.

Limit Switch Mounting

Limit switches have to be mounted to be easy accessible and shock-resistant, following the a.m. instructions. To guarantee the specified degree of protection, the lid screws must be tightened evenly and the cable entry must be fixed appropriately according to the cable diameter.

The limit switches must be used under strict observance of the relative parameters and rules of application. Depending on the number of switching actuations and operating conditions, the operational reliability of the switches has to be checked regularly.

Limit Switches - EKU Series

Operating and ambient conditions compliant to
Degree of protection acc. to DIN 40050 IEC 144
Fastening dimensions acc. to DIN EN 50047
Contact base material
Transport, storage and operating temperature
Screw clamp connection
Terminal cross-section

Cable gland
Operating speed on plunger
Mechanical life
Operating force on plunger
Insulation group acc. to DIN VDE 110
Admissible on-load switching cycles
Min. switching current using silver contacts
with slow-action contact
with snap-action contact
Min. switching voltage using silver contacts
Electrical life

Max. rated current/AC
Rated frequency
Max. rated voltage

DIN IEC 721-3-1...3 and DIN IEC 721-3-6
IP 65
2x M4
PA6
-25°C up to +55°C
M 3.5
2x 0.75 ... 2.5 mm² solid, flexible
multicore with ferrule 2x 0.75..1.5 mm²
M16x1.5
max. 0.25 m/s min. 1mm/s AC; min. 20mm/s DC
1x10.000.000 switching cycles
10N
C
1200/h
0.1A
0.012A
0.012A
24V
5x 100.000 switching cycles
AC 380V/1A DC 220V/0,2A
6A
50...60Hz
AC 380V
DC 220V

Limit Switches

EKU

made in germany



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

IP65 IP65 IP65 IP65 IP65 IP65



1NC + 1NO



EKU1-KST

EKU1-KD

EKU1-KG

EKU1-KH

EKU1-KRH

1NC + 1NO snap action contact



EKU1-SPR-KST

EKU1-SPR-KD

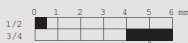
EKU1-SPR-KFS

EKU1-SPR-KG

EKU1-SPR-KH

EKU1-SPR-KRH

1NC + 1NO slow action contact



EKU1-FD-KST

EKU1-FD-KD

EKU1-FD-KG

EKU1-FD-KH

△ recommended operating travel

▲ positive opening

Type EKU1
DIN EN 50 047
VDE 0880/200
6A/380V~ IP65

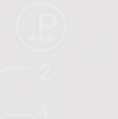
Type EKU1
DIN EN 50 047
VDE 0880/200
6A/380V~ IP65

Type EKU1
DIN EN 50 047
VDE 0880/200
6A/380V~ IP65









Type EKU1
DIN EN 50 047
VDE 0880/200
6A/380V~ IP65

Type EKU1
DIN EN 50 047
VDE 0880/200
6A/380V~ IP65

Type EKU1
DIN EN 50 047
VDE 0880/200
6A/380V~ IP65

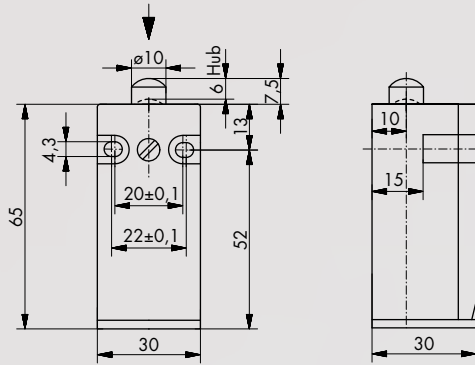


△ The EKU series are also available for AS-Interface applications.

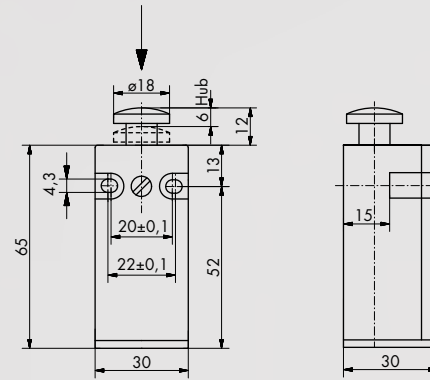
								
IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
CRH	EKU1-KRHV	EKU1-KK	EKU1-KDH	EKU1-KDF	EKU1-KR	EKU1-KV	EKU1-KW	EKU1-KZ
SPR	EKU1-SPR-KRHV	EKU1-SPR-KK	EKU1-SPR-KDH	EKU1-SPR-KDF	EKU1-SPR-KR	EKU1-SPR-KV	EKU1-SPR-KW	
		EKU1-FD-KK			EKU1-FD-KR	EKU1-FD-KV	EKU1-FD-KW	



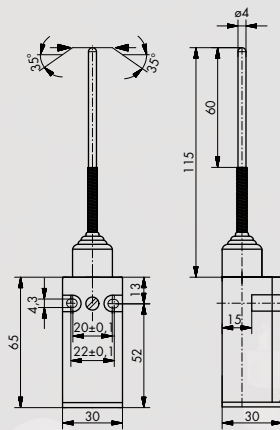
EKU1-KST
EKU1-FD-KST
EKU1-SPR-KST



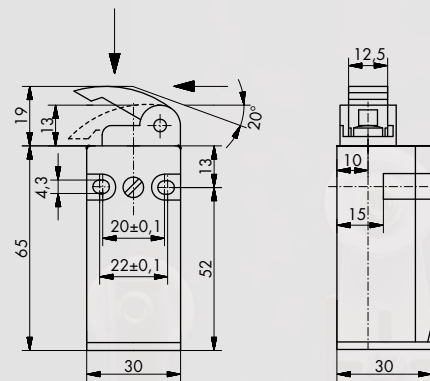
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EKU1-SPR-KD
EKU1-FD-KD



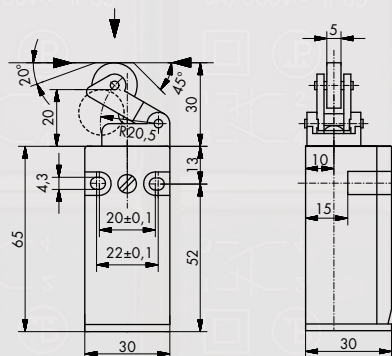
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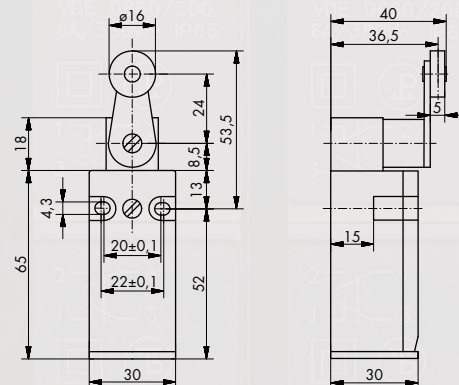
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EKU1-SPR-KG
EKU1-FD-KG



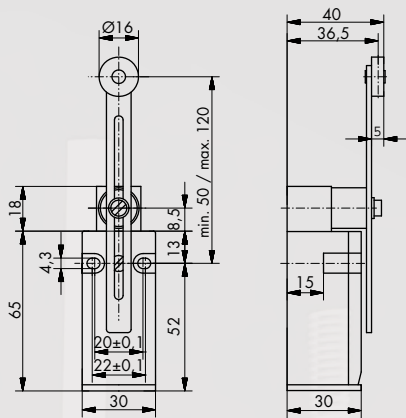
EKU1-KH
EKU1-SPR-KH
EKU1-FD-KH



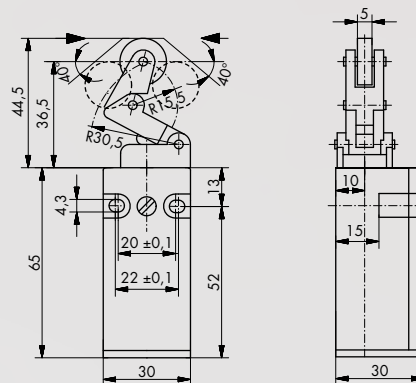
EKU1-KRH
EKU1-SPR-KRH



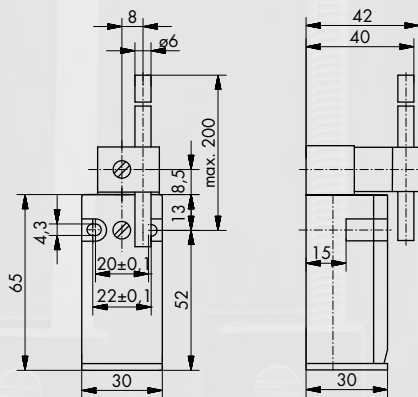
EKU1-KRHV
EKU1-SPR-KRHV



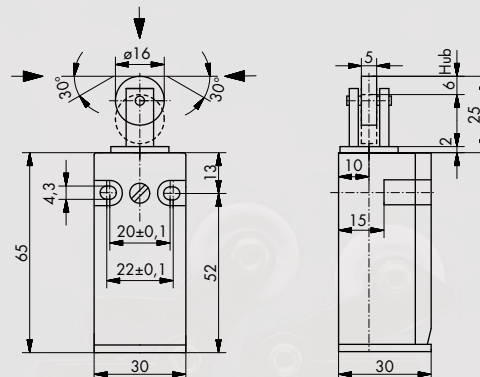
EKU1-KK
EKU1-SPR-KK
EKU1-FD-KK



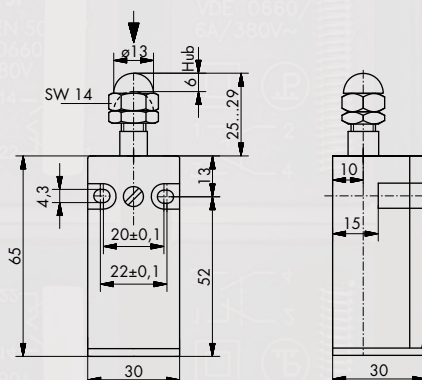
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EKU1-SPR-KDH
EKU1-KDF
EKU1-SPR-KDF



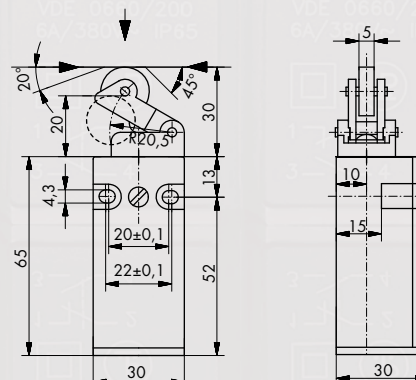
EKU1-KR
EKU1-SPR-KR
EKU1-FD-KR



EKU1-KV
EKU1-SPR-KV
EKU1-FD-KV



EKU1-KW
EKU1-SPR-KW
EKU1-FD-KW



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

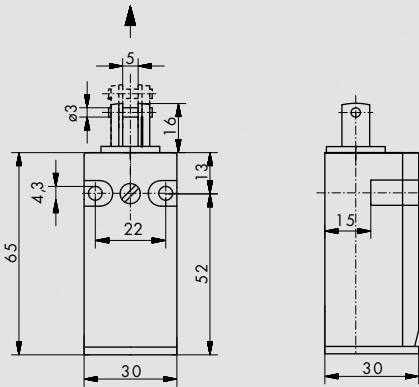
Limit Switches

made in germany



EKU

EKU1-KZ



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

Technical Data of Limit Switches for AS-Interface Application

Communication

- AS-Interface specification: V2.11, Rev. 1
- Slave profile: S-B.A.E
- Connection: 4-pole sensor connector M12x1, contact 1 is assigned to ASI+ and contact 3 to ASI-
- Max. network length: 100m (without repeater)
- Max. cycle time: 10ms (62 A/B slaves)

Ambient Conditions

- Transport-, storage- and Operating temperature: -25°C ... +55°C

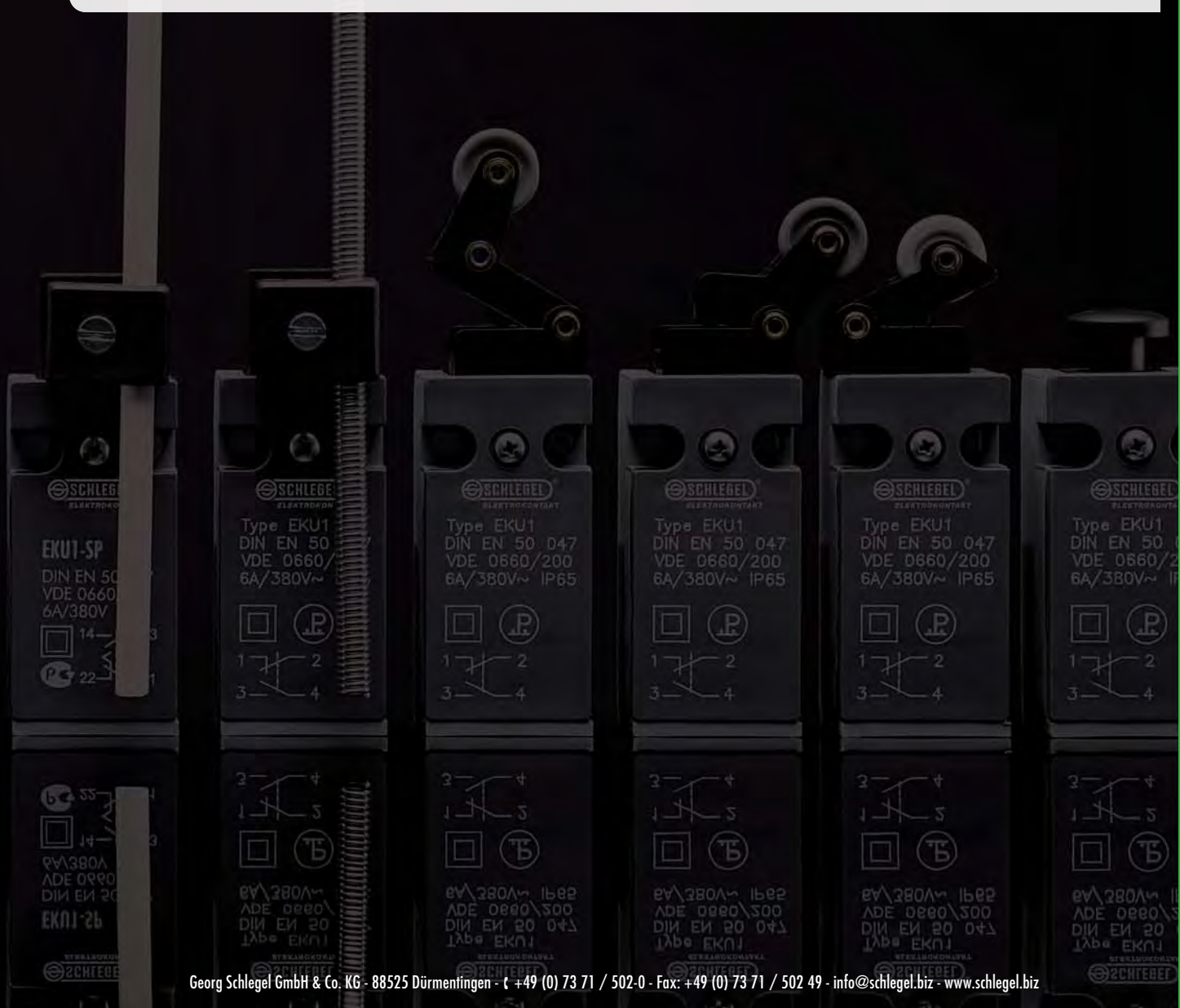
Mechanical Data

- Operating travel: 6mm

Electrical Data

- Voltage supply: 26.5...31.6 V, through the AS-Interface line
- Total power consumption: <= 30 mA
- Reverse polarity protection: available

- Admissible on-load switching cycles: 1200/h
- Mechanical life: 10 mill. switching cycles
- Operating force on plunger: 10 N
- Actuators: exchangeable and rotatable by 90°
- Degree of protection acc. to DIN 40050: IP65
- Construction: compliant to VDE 0660/200
- Ambient conditions acc. to DIN IEC 721-3-3: stationary use at weatherproof locations 3D6/3Z2/3Z10/3B2/3C2/3S3/3M6



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

About Us

Control Units

Panel Mount Jacks

Bus Technology









Enclosures



Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

	IP65	IP65	IP65	IP65	IP65	IP65
						
1NC + 1NO 	ASI_EKU1-KST	ASI_EKU1-KD		ASI_EKU1-KG	ASI_EKU1-KH	ASI_EKU1-KRH
1NC + 1NO snap action contact 	ASI_EKU1-SPR-KST	ASI_EKU1-SPR-KD	ASI_EKU1-SPR-KFS	ASI_EKU1-SPR-KG	ASI_EKU1-SPR-KH	ASI_EKU1-SPR-KRH

 recommended operating travel
 positive opening

IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
ASI ECU1-KRHV	ASI ECU1-KK	ASI ECU1-KDH	ASI ECU1-KDF	ASI ECU1-KR	ASI ECU1-KV	ASI ECU1-KW	ASI ECU1-KZ
ASI ECU1-SPR-KRHV	ASI ECU1-SPR-KK	ASI ECU1-SPR-KDH	ASI ECU1-SPR-KDF	ASI ECU1-SPR-KR	ASI ECU1-SPR-KV	ASI ECU1-SPR-KW	

About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

About Us

Control Units

Panel Mount Jacks

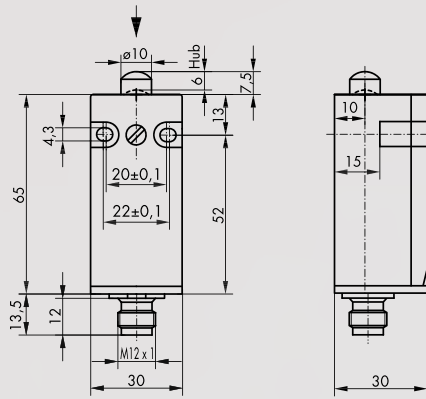
Bus Technology

Enclosures

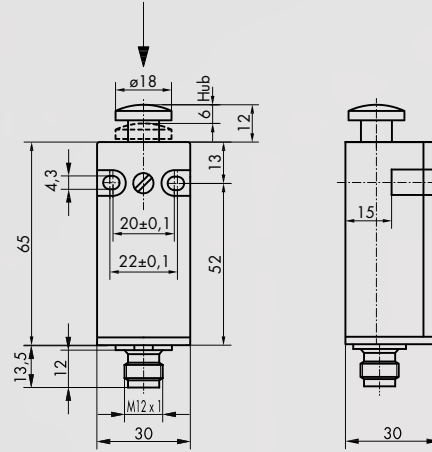
Terminal Blocks

Pedal Switches

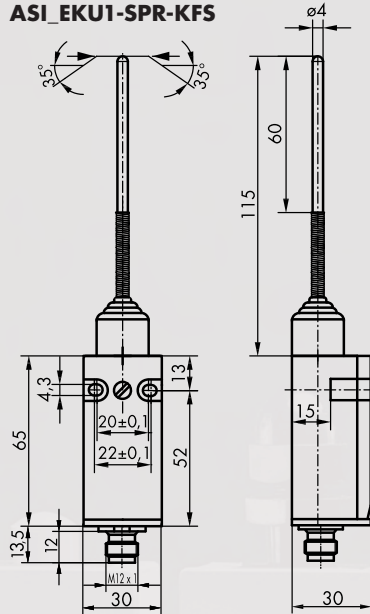
ASI_EKU1-KST
ASI_EKU1-SPR-KST



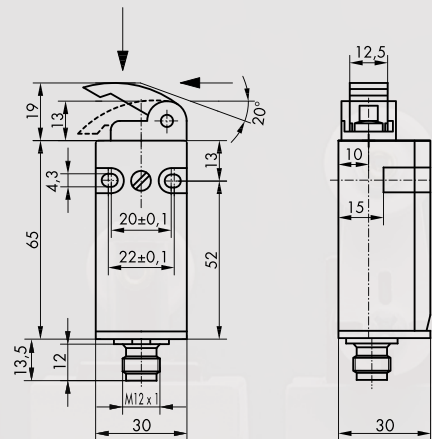
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ASI_EKU1-SPR-KD



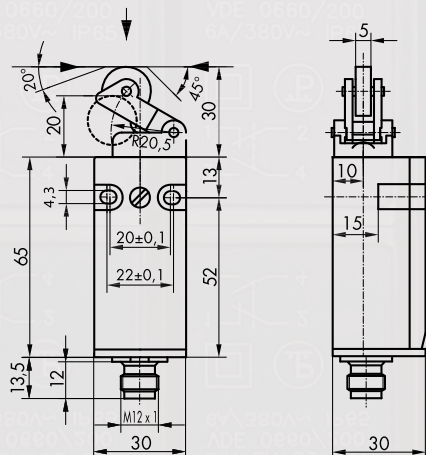
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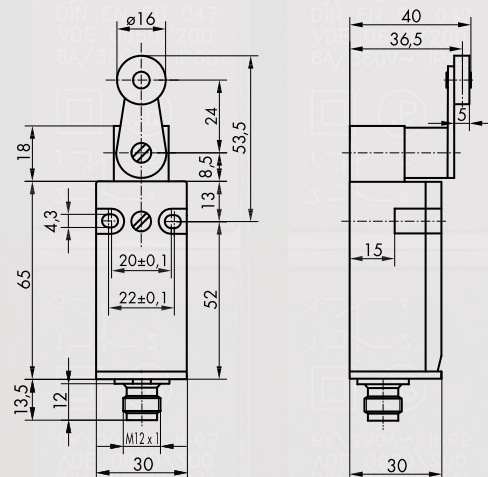
ASI_EKU1-KG
ASI_EKU1-SPR-KG



ASI_EKU1-KH
ASI_EKU1-SPR-KH



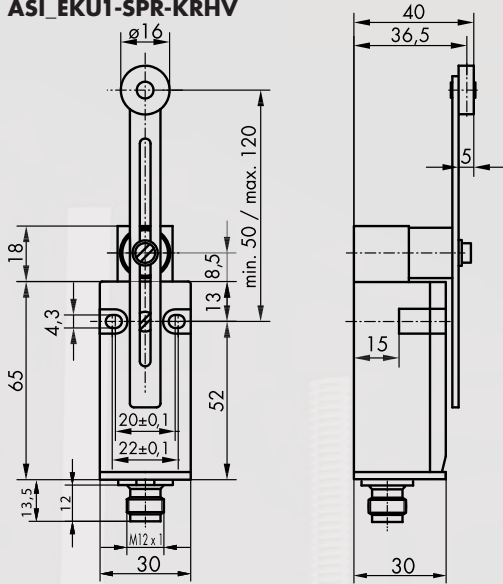
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ASI_EKU1-SPR-KRH



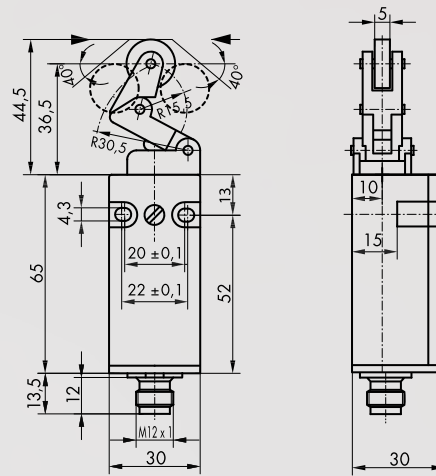
← Limit Switches

Type Index

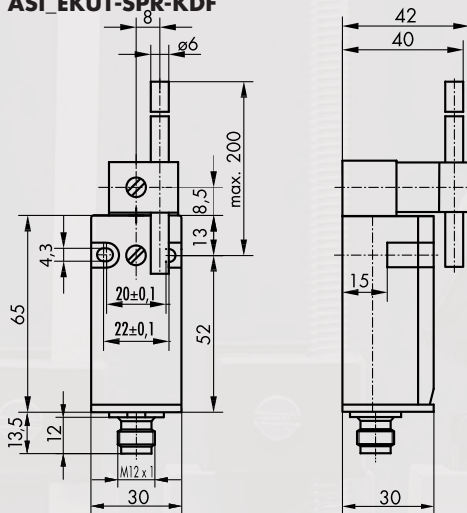
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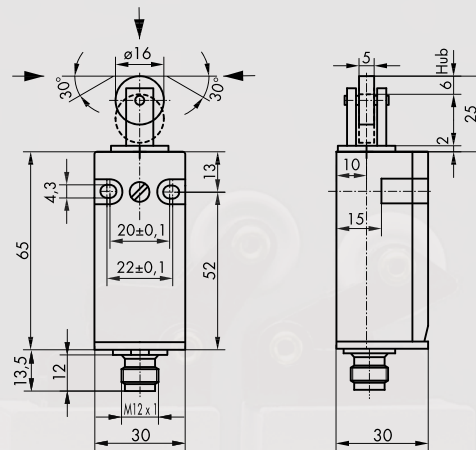
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ASI_EKU1-SPR-KK



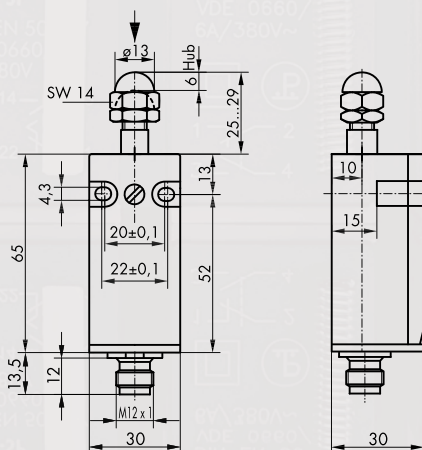
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ASI_EKU1-SPR-KDH
ASI_EKU1-KDF
ASI_EKU1-SPR-KDF



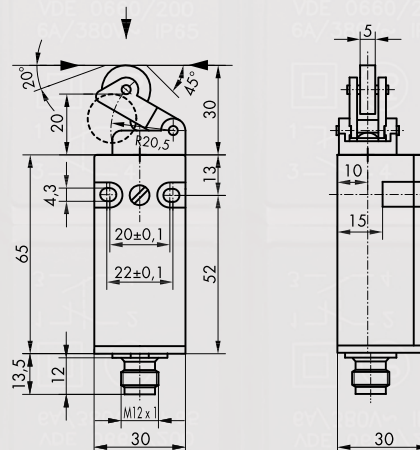
ASI_EKU1-KR
ASI_EKU1-SPR-KR



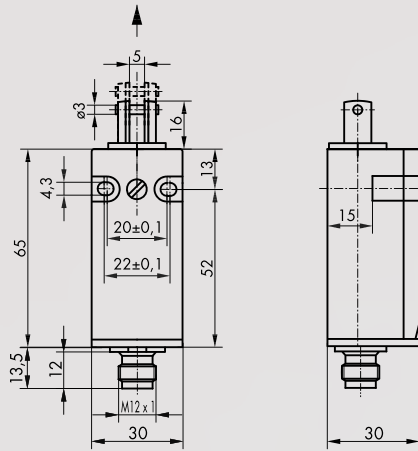
ASI_EKU1-KV
ASI_EKU1-SPR-KV



ASI_EKU1-KW
ASI_EKU1-SPR-KW



ASI_EKU1-KZ



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

Limit Switches - K... Series

Type approval	GL
Operating and ambient conditions compliant to	DIN IEC 721-3-1..3 and DIN IEC 721-3-6
Degree of protection acc. to DIN 40050 IEC 144	IP 65
Contact base material	PA6
Transport, storage and operating temperature	-25°C up to +55°C
Screw clamp connection	M 3.5
Terminal cross-section	2x 0.75 ... 2.5 mm ² solid, flexible multicore with ferrule 2x 0.75..1.5 mm ²
Operating speed on plunger	max. 0.25 m/s min. 1 mm/s AC; min. 20mm/s DC
Mechanical life	1x10.000.000 switching cycles
Operating force on plunger	10N
Insulation group acc. to DIN VDE 110	C
Admissible on-load switching cycles	1200/h
Min.switching current using silver contacts	0.1A
with slow-action contact	0.012A
with snap-action contact	0.012A
Min.switching voltage using silver contacts	24V
Electrical life	5x 100.000 switching cycles AC 380V/1A DC 220V/0,2A
Max. rated current/ AC	6A
Rated frequency	50....60Hz
Max. rated voltage	AC 380V DC 220V



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

Limit Switches

K

made in germany



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index



<p>1NC</p>	<p>IP65</p>	<p>IP65</p>	<p>IP65</p>	<p>IP65</p>
<p>1NC + 1NO</p>	<p>KA1</p>	<p>KA1-D</p>		<p>KA1-G</p>
<p>1NC + 1NO</p>	<p>KU1</p>	<p>KU1-D</p>		<p>KU1-G</p>
<p>1NC + 1NO (overlapping)</p>	<p>KÜ1</p>	<p>KÜ1-D</p>		<p>KÜ1-G</p>
<p>1NC + 1NO slow action contact</p>	<p>KU1-FD</p>	<p>KU1-FD-D</p>		<p>KU1-FD-G</p>
<p>1NC + 1NO snap action contact</p>	<p>KU1-SP</p>	<p>KU1-SP-D</p>	<p>KU1-SP-FS</p>	<p>KU1-SP-G</p>
<p>2NC</p>	<p>KA2</p>	<p>KA2-D</p>		<p>KA2-G</p>
<p>2NC + 1NO</p>	<p>KA2-E1</p>	<p>KA2-E1-D</p>		<p>KA2-E1-G</p>
<p>2NO</p>	<p>KE2</p>	<p>KE2-D</p>		<p>KE2-G</p>
<p>1NC + 2NO</p>	<p>KE2-A1</p>	<p>KE2-A1-D</p>		<p>KE2-A1-G</p>
<p>1NC + 1NO slow action contact</p>	<p>KA1-E1-FD</p>	<p>KA1-E1-FD-D</p>		<p>KA1-E1-FD-G</p>

recommended operating travel
 positive opening

					
KA1-H	KA1-K	KA1-R	KA1-V	KA1-W	
KU1-H	KU1-K	KU1-R	KU1-V	KU1-W	KU1-Z
KÜ1-H	KÜ1-K	KÜ1-R	KÜ1-V	KÜ1-W	
KU1-FD-H	KU1-FD-K	KU1-FD-R	KU1-FD-V	KU1-FD-W	
KU1-SP-H	KU1-SP-K	KU1-SP-R	KU1-SP-V	KU1-SP-W	
KA2-H	KA2-K	KA2-R	KA2-V	KA2-W	
KA2-E1-H	KA2-E1-K	KA2-E1-R	KA2-E1-V	KA2-E1-W	
KE2-H	KE2-K	KE2-R	KE2-V	KE2-W	
KE2-A1-H	KE2-A1-K	KE2-A1-R	KE2-A1-V	KE2-A1-W	
KA1-E1-FD-H	KA1-E1-FD-K	KA1-E1-FD-R	KA1-E1-FD-V	KA1-E1-FD-W	

About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

If you want to have the limit switches with "GL approval", just add "T" in front of type number (e.g. T-KA1).

K

About Us

Control Units

Panel Mount Jacks

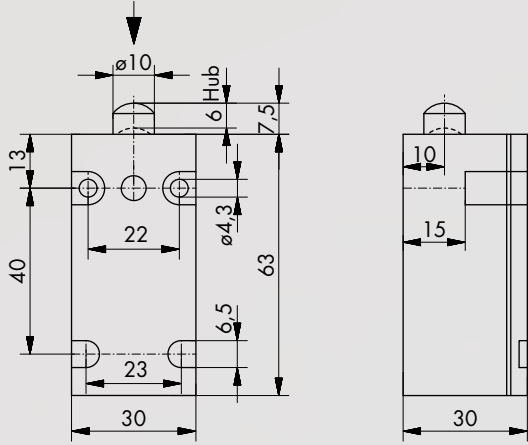
Bus Technology

Enclosures

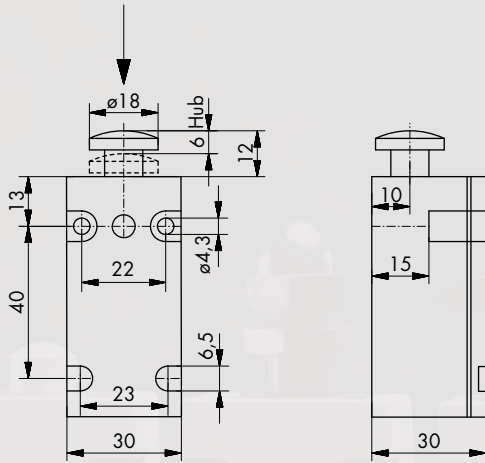
Terminal Blocks

Pedal Switches

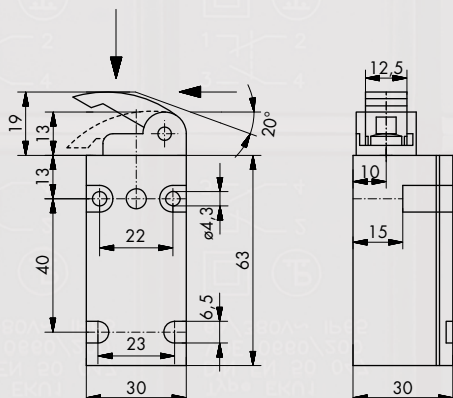
KA1
KU1
KU1-FD
KU1-SP



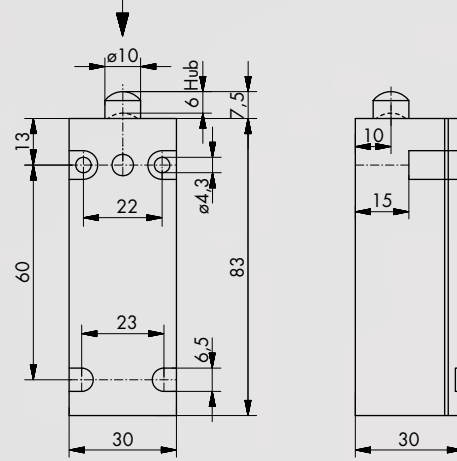
KA1-D
KU1-D
KU1-FD-D
KU1-SP-D



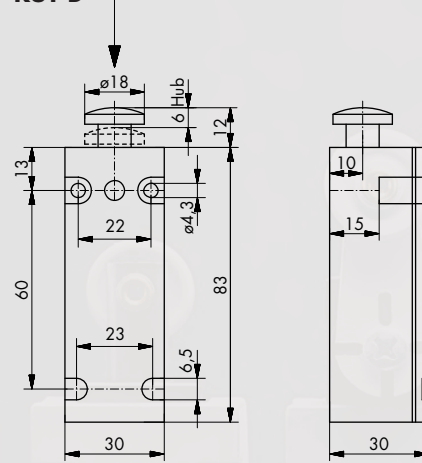
KA1-G
KU1-G
KU1-FD-G
KU1-SP-G



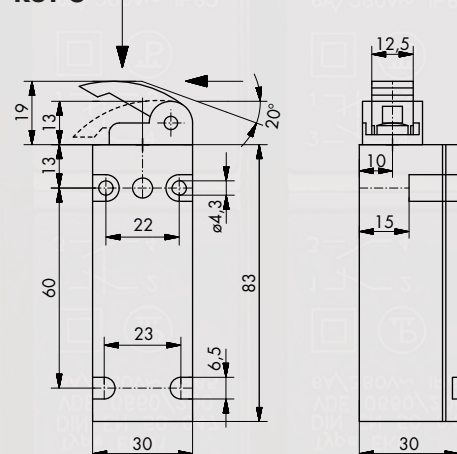
KA2
KA2-E1
KE2
KE2-A1
KA1-E1-FD
KÜ1



KA2-D
KA2-E1-D
KE2-D
KE2-A1-D
KA1-E1-FD-D
KÜ1-D



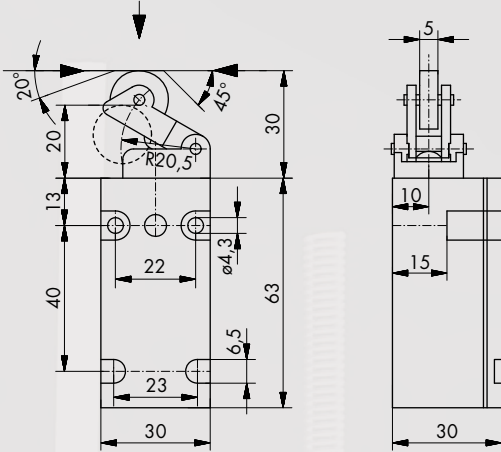
KA2-G
KA2-E1-G
KE2-G
KE2-A1-G
KA1-E1-FD-G
KÜ1-G



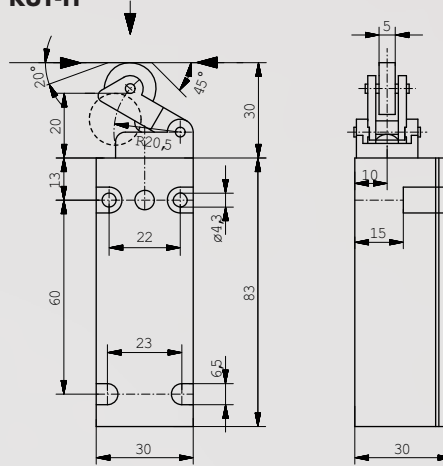
← Limit Switches

Type Index

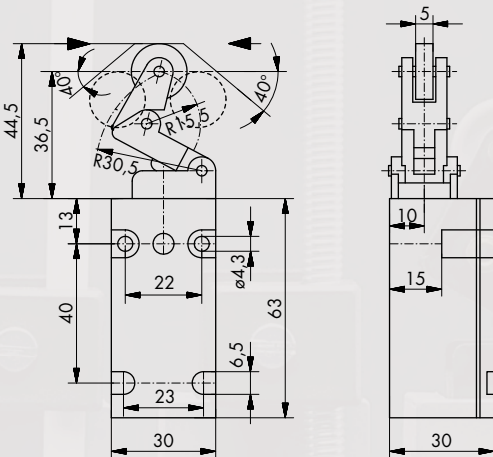
KA1-H
KU1-H
KU1-FD-H
KU1-SP-H



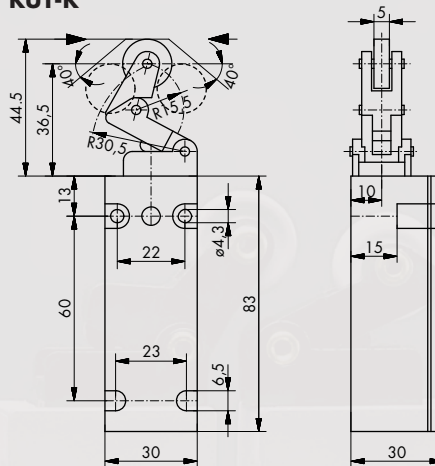
KA2-H
KA2-E1-H
KE2-H
KE2-A1-H
KA1-E1-FD-H
KÜ1-H



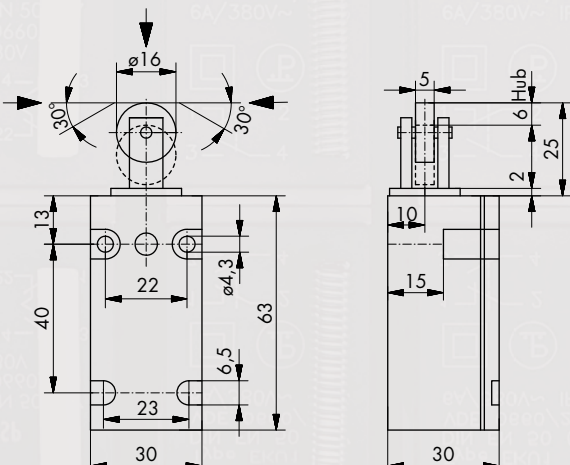
KA1-K
KU1-K
KU1-FD-K
KU1-SP-K



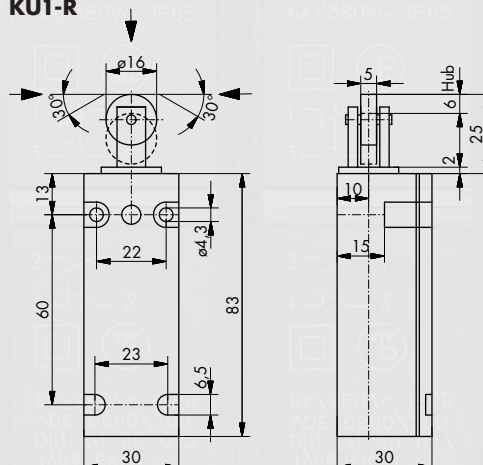
KA2-K
KA2-E1-K
KE2-K
KE2-A1-K
KA1-E1-FD-K
KÜ1-K



KA1-R
KU1-R
KU1-FD-R
KU1-SP-R



KA2-R
KA2-E1-R
KE2-R
KE2-A1-R
KA1-E1-FD-R
KÜ1-R



K

About Us

Control Units

Panel Mount Jacks

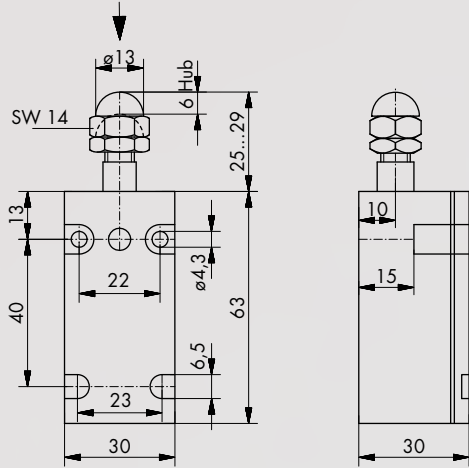
Bus Technology

Enclosures

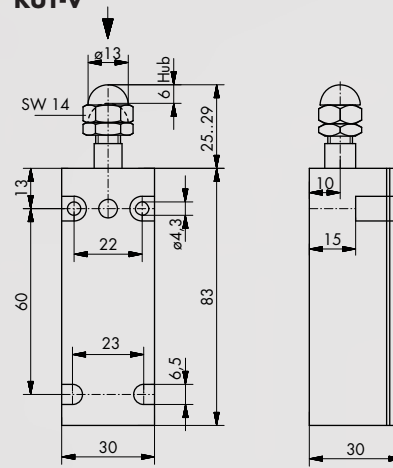
Terminal Blocks

Pedal Switches

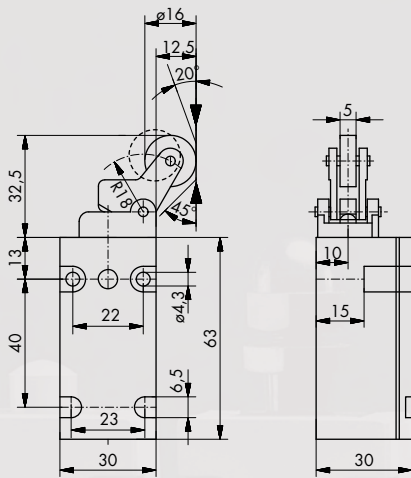
KA1-V
KU1-V
KU1-FD-V
KU1-SP-V



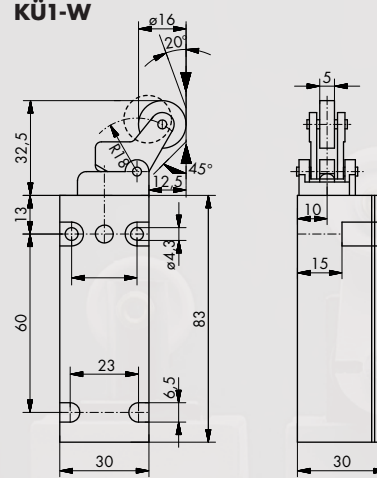
KA2-V
KA2-E1-V
KE2-V
KE2-A1-V
KA1-E1-FD-V
KÜ1-V



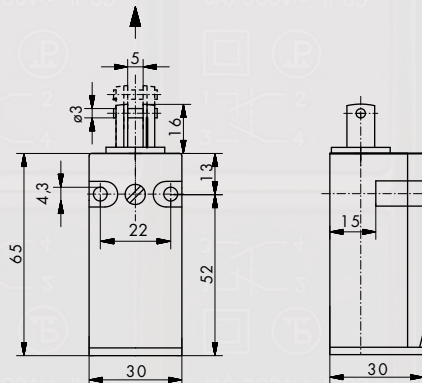
KA1-W
KU1-W
KU1-FD-W
KU1-SP-W



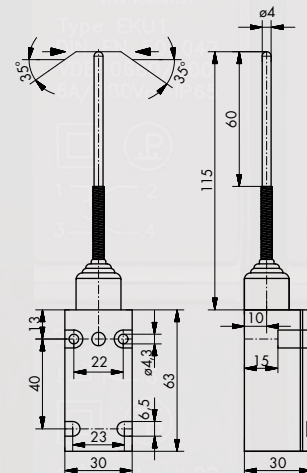
KA2-W
KA2-E1-W
KE2-W
KE2-A1-W
KA1-E1-FD-W
KÜ1-W



KU1-Z



KU1-SP-FS



← Limit Switches

Type Index

Limit Switches - GW...1 Standard Series

Type Approval	GL
Operating and ambient conditions compliant to	DIN IEC 721-3-1..3 and DIN IEC 721-3-6
Degree of protection acc. to DIN 40050 IEC 144	IP 65
Housing material	aluminium die casting
Transport, storage and operating temperature	-25°C up to +55°C
Screw clamp connection	M 4
Terminal cross-section	2x 0.75 ... 2.5 mm ² solid, flexible multicore with ferrule 2x 0.75..1.5 mm ²
Operating speed on plunger	max. 0.25 m/s min. 1mm/s AC; min. 20mm/s DC
Mechanical life	1x10.000.000 switching cycles
Operating force on plunger	18N
Insulation group acc. to DIN VDE 110	C
Admissible on-load switching cycles	1200/h
Min. switching current using silver contacts	0.1A
Min. switching voltage using silver contacts	24V
Electrical life	5x 100.000 switching cycles AC 380V/1A DC 220V/0,2A
Max. rated current/ AC	6A
Rated frequency	50...60Hz
Max. rated voltage	AC 380V DC 220V

Limit Switches - GW...2 Modular Series

Module type approval	--
Operating and ambient conditions compliant to	DIN IEC 721-3-1..3 and DIN IEC 721-3-6
Degree of protection acc. to DIN 40050 IEC 144	IP 65
Housing material	aluminium die casting
Contact base material	PA6.6
Transport, storage and operating temperature	-25°C up to +55°C
Screw clamp connection	Schlegel Modular Contact System
Screwless connection technology	CAGE CLAMP Modular Contact System
Operating speed on plunger	max. 0.25 m/s min 1mm/s AC min 20mm/s DC
Mechanical life	--
Operating force on plunger	18N
Admissible on-load switching cycles	1200/h

The possible combinations of the modular contact elements create a modular assembly system that offers a variant diversity which is unique. For instance, for connection workings the modular contact block can be freely removed from the housing, which makes wiring very easy.

Limit Switches - PW... Series

Operating and ambient conditions compliant to	DIN IEC 721-3-1..3
Degree of protection acc. to DIN 40050 IEC 144	IP 65
Housing material	PA6
Transport, storage and operating temperature	-25°C up to +55°C
Screw clamp connection	M 4
Terminal cross-section	2x 0.75 ... 2.5 mm ² solid, flexible multicore with ferrule 2x 0.75..1.5 mm ²
Operating speed on plunger	max. 0,25 m/s min. 1mm/s AC; min. 20mm/s DC
Mechanical life	1x10.000.000 switching cycles
Operating force on plunger	18N
Insulation group acc. to DIN VDE 110	C
Admissible on-load switching cycles	1200/h
Min. switching current using silver contacts	0.1A
Min. switching voltage using silver contacts	24V
Electrical life	5x 100.000 switching cycles AC 380V/1A DC 220V/0,2A
Max. rated current/ AC	6A
Rated frequency	50...60Hz
Max. rated voltage	AC 380V DC 220V

About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

Limit Switches

GW/PW

made in germany



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

	IP65	IP65	IP65
1NC 	GWA1 PWA1		GWA1-H PWA1-H
1NC + 1NO 	GWU1 PWU1	GWU1-D	GWU1-H PWU1-H
1 Ö + 1 S (überschneidend) 	GWÜ1	GWÜ1-D	GWÜ1-H
NC + 1NO (overlapping) + 1NC 	GWÜA1		GWÜA1-H
1NC + 1NO (overlapping) + 1NO 	GWÜE1		GWÜE1-H
2NC 	GWA2	GWA2-D	GWA2-H
2NC + 1NO 	GWA2-E1	GWA2-E1-D	GWA2-E1-H
2NC, positive opening contact 	GWA2-Zw		GWA2-H-Zw
2NC + 2NO 	GWU2	GWU2-D	GWU2-H
2NO 	GWE2	GWE2-D	GWE2-H
3NC 	GWA3	GWA3-D	GWA3-H
3NO 	GWE3	GWE3-D	GWE3-H

If you require a cable gland, just add "mKV" to type number (e.g. GWA1mKV).

If you want to have the limit switches with "GL approval", just add "T" in front of type number (e.g. T-GWA1).

			
<p>GWA1-R PWA1-R</p>	<p>GWA1-V</p>		
<p>GWU1-R PWU1-R</p>	<p>GWU1-V</p>	<p>GWU1-F</p>	<p>GWU1-ZB PWU1-ZB</p>
<p>GWÜ1-R</p>	<p>GWÜ1-V</p>	<p>GWÜ1-F</p>	
<p>GWÜA1-R</p>			
<p>GWÜE1-R</p>			
<p>GWA2-R</p>	<p>GWA2-V</p>	<p>GWA2-F</p>	
<p></p>	<p>GWA2-E1-V</p>	<p>GWA2-E1-F</p>	
<p>GWA2-R-Zw</p>	<p>GWA2-V-Zw</p>		
<p>GWU2-R</p>	<p>GWU2-V</p>	<p>GWU2-F</p>	
<p>GWE2-R</p>	<p>GWE2-V</p>	<p>GWE2-F</p>	
<p>GWA3-R</p>	<p>GWA3-V</p>	<p>GWA3-F</p>	
<p>GWE3-R</p>	<p>GWE3-V</p>	<p>GWE3-F</p>	

△ recommended operating travel
▲ positive opening

Limit Switches

GW/PW

About Us

Control Units

Panel Mount Jacks

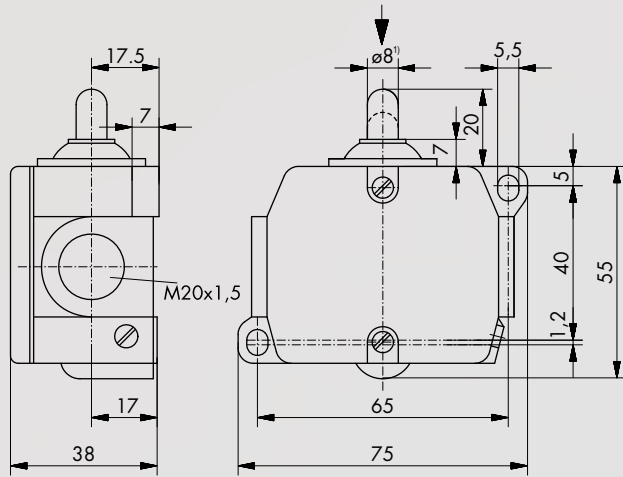
Bus Technology

Enclosures

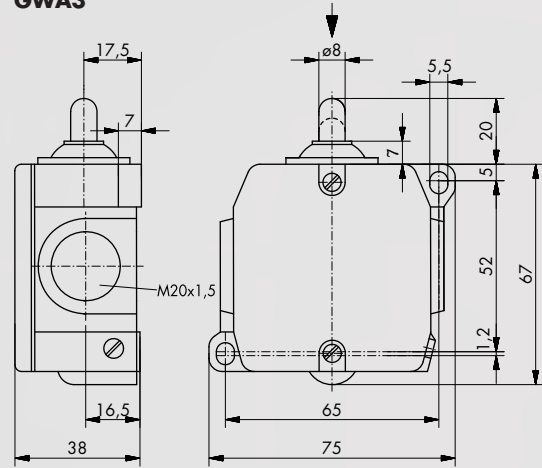
Terminal Blocks

Pedal Switches

GWA1
GWU1
PWA1
PWU1

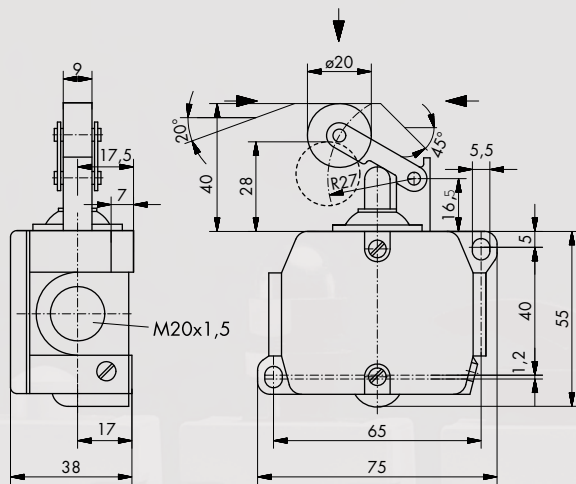


GWA2
GWA2-E1
GWA2-Zw
GWU2
GWE2
GWA3

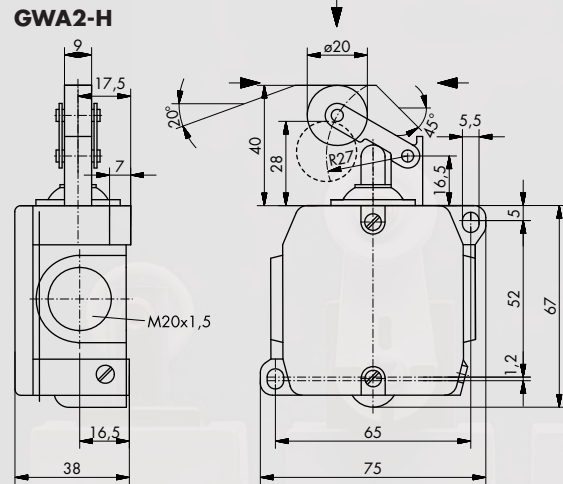


GWE3
GWÜ1
GWÜA1
GWÜE1

GWA1-H
GWU1-H
PWA1-H
PWU1-H

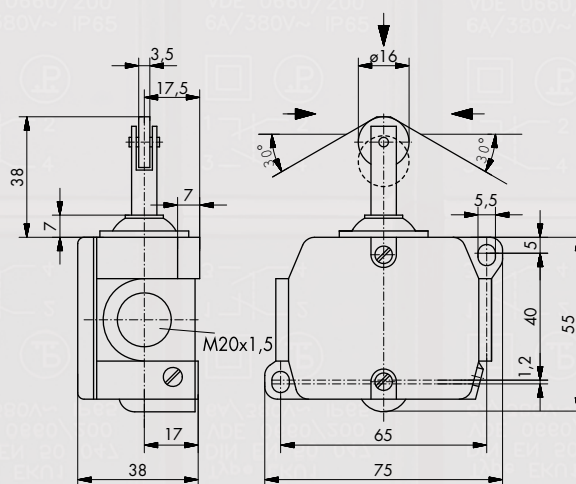


GWA2-H-Zw
GWU2-H
GWE2-H
GWA3-H
GWE3-H
GWA2-H

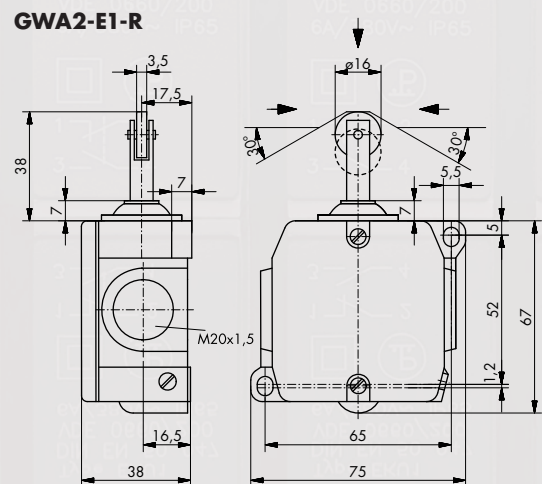


GWA2-E1-H
GWÜ1-H
GWÜA1-H
GWÜE1-H

GWA1-R
GWU1-R
PWA1-R
PWU1-R



GWA2-R
GWU2-R
GWE2-R
GWA3-R
GWE3-R
GWA2-E1-R

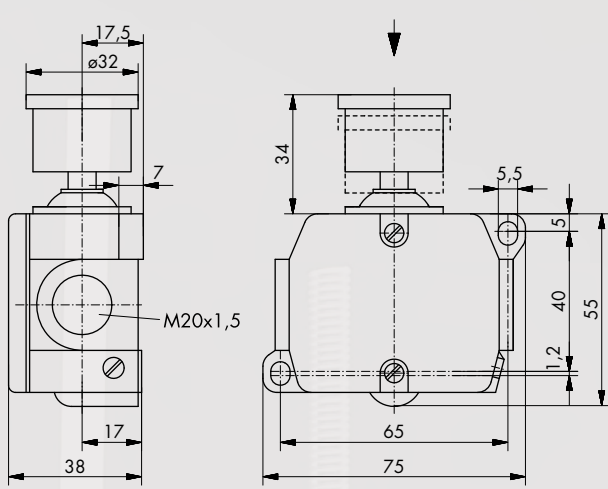


GWÜ1-R
GWÜA1-R
GWÜE1-R
GWA2-R-Zw

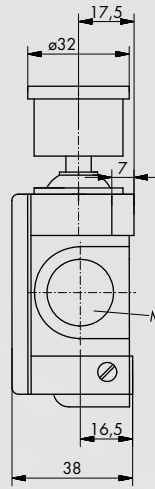
← Limit Switches

Type Index

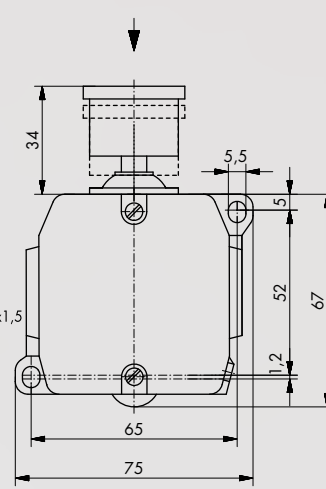
GWU1-D



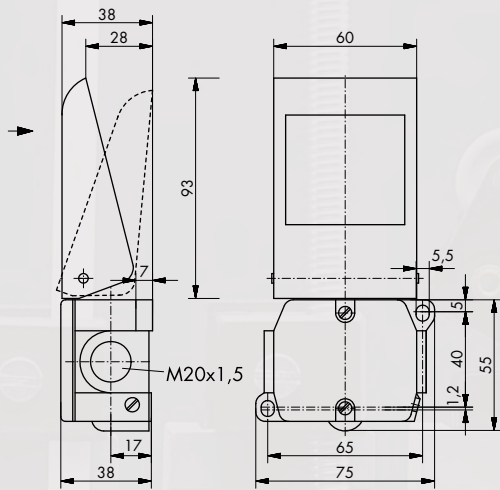
**GWA2-D
GWU2-D
GWE2-D
GWE3-D**



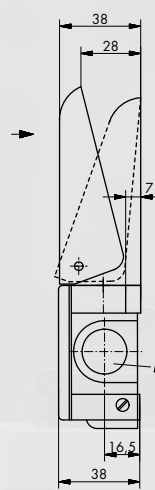
**GWÜ1-D
GWA3-D
GWA2-E1-D**



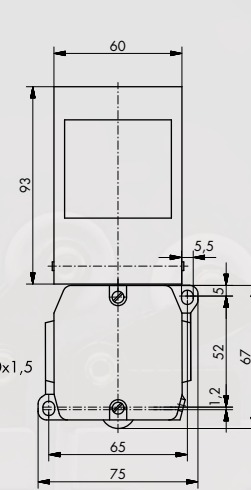
GWU1-F



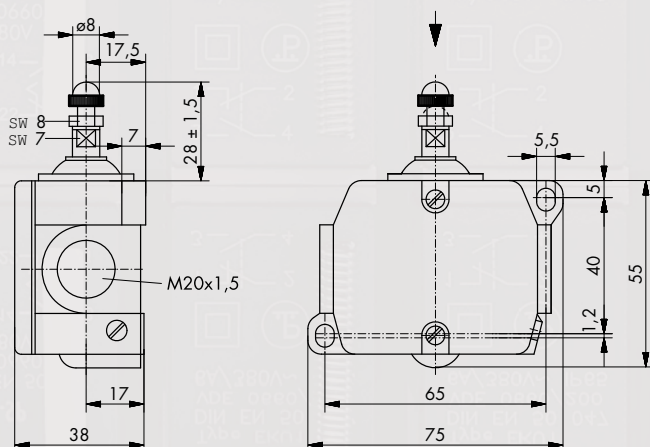
**GWA2-F
GWU2-F
GWE2-F
GWA3-F
GWE3-F**



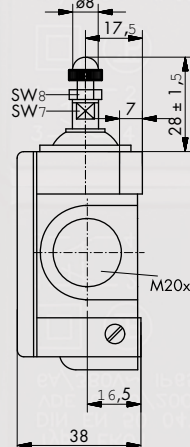
**GWÜ1-F
GWA2-E1-F**



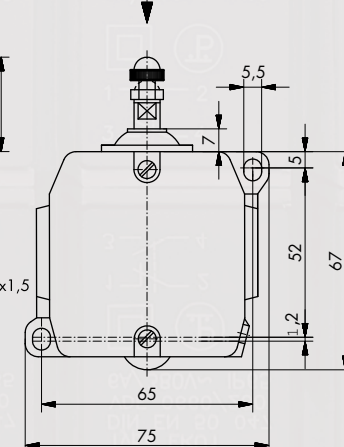
**GWU1-V
GWA1-V**



**GWA2-V
GWA2-V-Zw
GWU2-V
GWE2-V
GWE3-V
GWÜ1-V**



**GWA2-E1-V
GWA3-V**



Limit Switches

GW/PW

About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

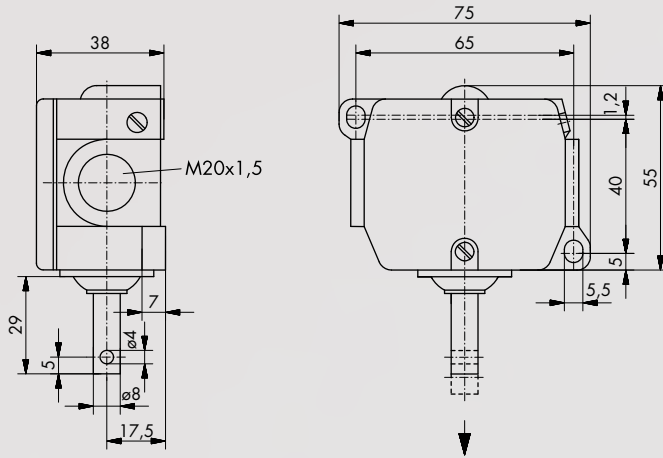
Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index

GWU1-ZB PWU1-ZB



Illustration

Description

Type



Screwed cable gland with insulation displacement connection (IDC)

SNT

for the EKU... series



Cable Gland

M16x1,5
M20x1,5
M25x1,5

KV-M16x1,5
KV-M20x1,5
KV-M25x1,5



Screw plug

M16x1,5
M20x1,5
M25x1,5

VS-M16x1,5
VS-M20x1,5
VS-M25x1,5



About Us

Control Units

Panel Mount Jacks

Bus Technology

Enclosures

Terminal Blocks

Pedal Switches

→ Limit Switches

Type Index