

S200

Safety Switches



EN 2018/09 - 607270
We reserve the right to make
technical changes

SAFE IMPLEMENTATION AND OPERATION

Original operating instructions

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Leuze electronic GmbH + Co. KG

In der Braike 1

D-73277 Owen / Germany

Phone: +49 7021 573-0

Fax: +49 7021 573-199

<http://www.leuze.com>

info@leuze.de

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1 About this document

1.1 Other applicable documents

The information on the S200 safety switch is divided into two documents. Document "S200 application information" contains only the most important safety notices.

↪ For the safe implementation, testing and operation, download document Safe implementation and operation of the S200 (this document) from <http://www.leuze.com/s200/> or request it from service.protect@leuze.de or ph. +49 7021 573-123.

Table 1.1: Documents on the S200 safety switch

Purpose and target group	Title	Source
Detailed information for all users	Safe implementation and operation of the S200 (this document)	On the Internet, download from: http://www.leuze.com/s200/
Basic information for technicians and operating company	S200 application information	Print document part no. 607236 included in the delivery contents of the product

1.2 Used symbols and signal words

Table 1.2: Warning symbols and signal words

	Symbol for dangers
NOTE	Signal word for property damage Indicates dangers that may result in property damage if the measures for danger avoidance are not followed.

CAUTION	Signal word for minor injuries Indicates dangers that may result in minor injury if the measures for danger avoidance are not followed.
WARNING	Signal word for serious injury Indicates dangers that may result in severe or fatal injury if the measures for danger avoidance are not followed.
DANGER	Signal word for life-threatening danger Indicates dangers that will result in severe or fatal injury if the measures for danger avoidance are not followed.

Table 1.3: Other symbols

	Symbol for tips Text passages with this symbol provide you with further information.
	Symbol for action steps Text passages with this symbol instruct you to perform actions.
xxx	Placeholder in the product description for all variants

2 Safety

Before using the safety switch, a risk assessment must be performed according to valid standards (e.g. EN ISO 12100-1, EN ISO 13849-1, EN ISO 14121). For mounting, operating and testing, document Safe implementation and operation of the S200, application information as well as all applicable national and international standards, regulations, rules and directives must be observed. Observe and print out relevant and supplied documents and distribute to the affected personnel.

The following standards apply for the risk assessment at the protective device prior to using the safety switch:

- EN ISO 14121, Safety of machinery, risk assessment
- EN ISO 12100-1, Safety of machinery
- EN ISO 13849-1, Safety-related parts of control systems

The realizable category of the integration in control circuits according to EN ISO 13849-1 is dependent on the used contact block, wiring and mechanical conditions.

In particular, the following national and international legal regulations apply for the start-up, technical inspections and work with safety switches:

- Machinery directive 2006/42/EC
- Low voltage directive 2006/95/EC
- Use of work equipment directive 89/655 EEC
- Safety regulations
- Accident-prevention regulations and safety rules
- Ordinance on Industrial Safety and Health and employment protection act
- Device Safety Act



Local agencies can also provide safety-relevant information (e.g. occupational safety and health inspectorate, employer's liability insurance association, labor inspectorate, OSHA).

2.1 Intended use and foreseeable misuse

2.1.1 Intended use

- The safety switch may only be used after it has been selected in accordance with the respectively applicable instructions and relevant standards, rules and regulations regarding labor protection and safety at work, and after it has been installed on the machine, connected, commissioned, and checked by a **competent person**.
- When selecting the safety switch it must be ensured that its safety-related capability meets or exceeds the required Performance Level PL, ascertained in the risk assessment.
- It must be in perfect condition and inspected regularly.
- The switching process must only be triggered by an actuator approved for this safety switch that is connected to the moveable protective device in a non-detachable and tamperproof manner.



WARNING

A running machine can cause severe injuries!

Make certain that, during all conversions, maintenance work and inspections, the system is securely shut down and protected against being restarted.

S200 safety switches must be connected in such a way that a dangerous state can only be activated while the protective device is closed and so that the dangerous state stops upon opening of the protective device. It must not be used if the point of operation can be accessed during the lag time before the dangerous state has ended.

Connection conditions:

- the dangerous state can only be activated while the protective device is closed
- opening the protective device while the machine is running triggers a stop command and ends the dangerous state

NOTICE

In particular, EN ISO 14119 (replaces EN 1088) contains important information on the intended use as well as requirements on the installation and operation of interlock devices in combination with guards.

Furthermore, the S200 safety switch must **not** be used under the following conditions:

- high concentration of dust particles in the surrounding area
- rapidly changing ambient temperature (leads to condensation)
- in the event of strong physical shocks
- in explosive or easily flammable atmospheres
- the mounting locations are not sufficiently stable
- the safety of multiple persons is dependent on the function of this safety switch (e.g. nuclear power plants, trains, aircraft, motor vehicles, incinerators, medical devices)



For machines with longer slowdowns, a safety locking device must be used.

Handling the safety switch:

- ↗ Observe the permissible environmental conditions for storage and operation (see chapter 13 "Technical data").
- ↗ Immediately replace damaged safety switch according to these instructions.
- ↗ Use cable gland, insulation materials and connecting wires of the appropriate degree of protection.
- ↗ Protect the safety switch from penetrating foreign bodies (e.g. shavings, sand and blasting agent).
- ↗ Before performing painting work, cover the actuation slot, actuator and name plate.
- ↗ Immediately clean any contamination from the safety switch that impacts function according to these instructions.
- ↗ Make no structural changes to the safety switch.
- ↗ The safety switch must be exchanged after a maximum of 20 years.

2.1.2 Foreseeable misuse

Any use other than that defined under the "approved purpose" or which goes beyond that use of the safety switch is considered improper use!

E.g. - using without non-detachably mounted actuator

- looping into the safety circuit parts that are not relevant to safety
- using the switch as a limit stop

2.2 Competent personnel

Prerequisites for competent personnel:

- suitable technical training
- knows the rules and regulations for labor protection, safety at work and safety technology and can assess the safety of the machine
- knows the instructions for the safety switch and the machine
- was instructed by the responsible individuals on the mounting and operation of the machine and of the safety switch

2.3 Responsibility for safety

Manufacturer and operating company must ensure that the machine and implemented safety switch function properly and that all affected persons are adequately informed and trained.

The type and content of all imparted information must not lead to unsafe actions by users.

The manufacturer of the machine is responsible for:

- Safe machine construction
- Safe implementation of the safety switch
- Imparting all relevant information to the operating company
- Adherence to all regulations and directives for the safe starting-up of the machine

The operating company is responsible for:

- Instructing the operating personnel
- Maintaining the safe operation of the machine
- Adhering to all regulations and directives for labor protection and safety at work
- Regular testing by competent personnel

2.4 Exemption of liability

Leuze electronic GmbH + Co. KG is not liable in the following cases:

- Safety switch is not used as intended
- Safety notices are not adhered to
- Mounting and electrical connection are not properly performed
- Reasonably foreseeable misuse is not taken into account

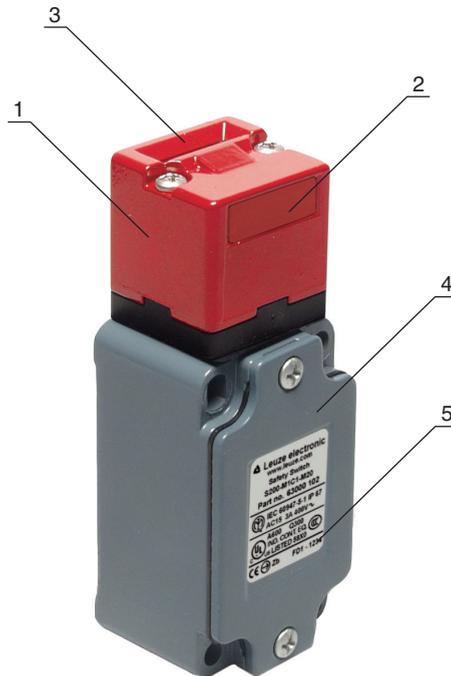
3 Device description

The safety switches of the S200 series described in these operating instructions are mechanically coded interlock devices of type 2 acc. to EN ISO 14119.

The safety switches with separate actuator, for which these operating instructions apply, are safety switches for the monitoring of gates, safety doors, enclosures and all protective devices that safeguard the parts of machines without stopping time.

The actuator is installed on the moveable part of the protective device so that it is pulled out of the switch every time the protective device is opened.

Models are available with various contact sets, with screw terminals or M12 plug connection.



- 1 Deflection head
- 2 Dust cover
- 3 Insertion opening for actuator
- 4 Housing cover
- 5 Name plate (connection data, production code and year of manufacture)

Table 3.1: S200 safety switches

Article	Part no.	Description
S200-M3C1-M20	63000200	2NC, 1 cable entry
S200-M1C1-M20	63000201	1NC + 1NO, 1 cable entry
S200-M4C1-M20	63000202	2NC + 1NO, 1 cable entry
S200-M4C1-M12	63000203	2NC + 1NO, 1 cable entry / M12 connector
S200-P5C1-M20	63000204	3NC, 1 cable entry

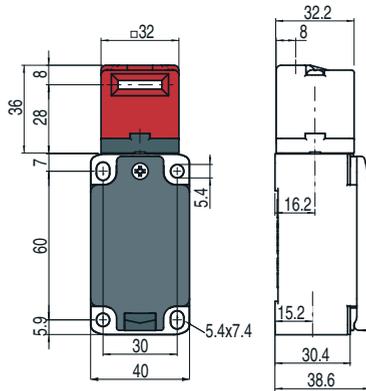


Figure 3.1: S200-Pxxx-M20 dimensions

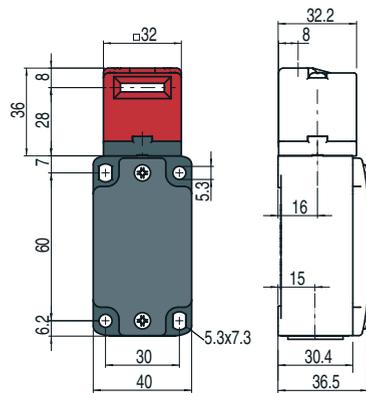


Figure 3.2: S200-Mxxx-M20 dimensions

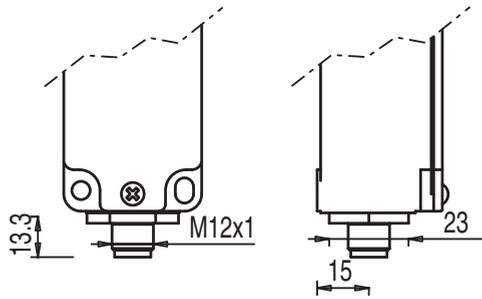


Figure 3.3: Dimensions of S200-M4C1-M12 in mm (here, M12 connector dimensions)

4 Functions

The safety switch reports to the safety relay whether the protective device is closed. The safety contacts close when the actuator moves in; the safety contacts are force-opened when the actuator is pulled out (e.g., when opening the protective device). As a result, the machine can only be switched on if the protective device is closed.

The deflection head can be turned in increments of 90° and set to 5 approach directions. By selecting various actuators, the safety switch can be installed in any position.

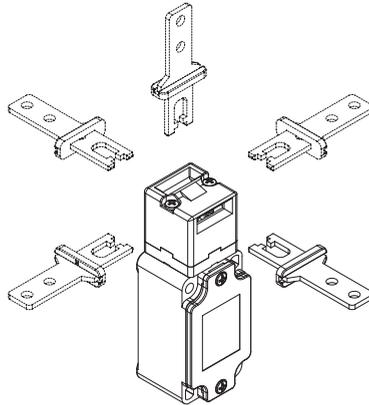


Figure 4.1: Approach directions

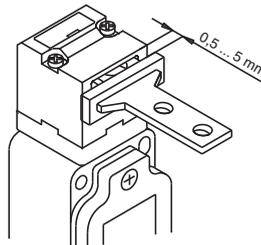


Figure 4.2: Generous play of the actuator

This switch features generous play of the actuator in the actuator head. Thus, the protective device can swivel in the approach direction (4.5 mm) without causing undesired machine downtime. This generous play is available with all actuators to ensure maximum reliability of the device.

5 Mounting



WARNING

Severe accidents may result if the safety switch is not mounted properly!

The protective function of the safety switch is only ensured if appropriately and professionally mounted for the respective, intended area of application.

- ↪ Mounting may only be performed by competent personnel.
- ↪ Observe standards, regulations and these instructions.
- ↪ All installation work (e.g., the alignment of the deflection head) must only be performed while the machine is in a voltage-free state.
- ↪ Protect the housing and deflection head from materials penetrating the enclosure (environmental conditions (see chapter 13 "Technical data")).
- ↪ Test to ensure proper function.

5.1 Adjusting the deflection head

- ↪ Unscrew the 2 screws on the deflection head.



↪ Lift the deflection head and turn to the desired approach direction.



↪ Tighten the 2 screws on the deflection head with 0.8–1.2Nm.

↪ Close unused opening with the dust cover.

5.2 Mounting the safety switch

Prerequisites for mounting:

- Deflection head is adjusted
- Fully assembled

↪ Select the mounting location so that the following conditions are satisfied:

- Safety switch and actuator can be mechanically well matched to one another and permanently mounted
- Accessible to qualified personnel for testing and replacement
- Difficult to access for operating personnel with opened protective device

- ↪ Position washers and screw down safety switch with 2–3Nm.



5.3 Mounting the actuator

NOTICE

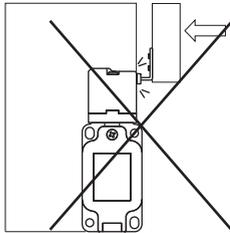
The safety switch may be damaged if mounted improperly!

- ↪ Use separate mechanical limit stop for the moving part of the protective device.
- ↪ Align actuator so that it does not hit or rub against the edges of the insertion opening.

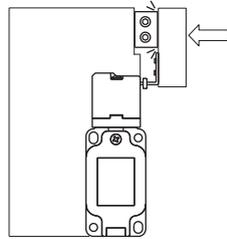
Prerequisites for proper function:

- actuator is not deformed or damaged
 - actuator is suitable for the safety switch
- Proper function is ensured only with original accessories (see chapter 12 "Accessories").

Wrong

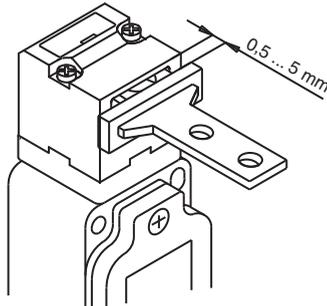


Correct



↪ Align actuator.

Play for the actuator in the closed state: 0.5–5 mm.



↪ Secure actuator with rivets or tamperproof screws so that it cannot be detached.



6 Electrical connection

⚠ WARNING
Serious accidents may result if the electrical connection is faulty!
↪ Electrical connection may only be performed by competent personnel.

6.1 Connecting the contact block

⚠ DANGER
Risk of death by electric shock!
↪ Interrupt the voltage supply to the safety switch.

Prerequisites for the electrical connection:

- Temperature stability of the cable insulation material must be greater than the maximum temperature of the housing (see chapter 13 "Technical data")
- Cable gland with appropriate degree of protection
- Maximum current load is observed (see chapter 13 "Technical data")

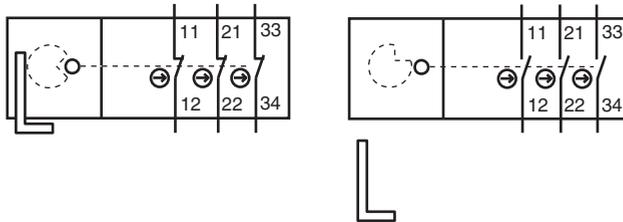


Figure 6.1: Contact block 3NC S200-P5C1-M20

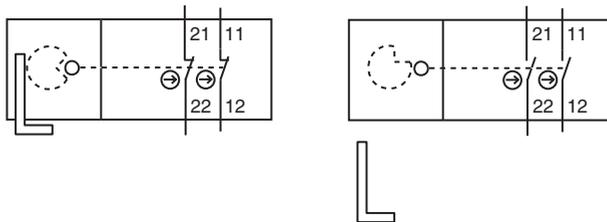


Figure 6.2: Contact block 2NC (S200-M3C1-M20)

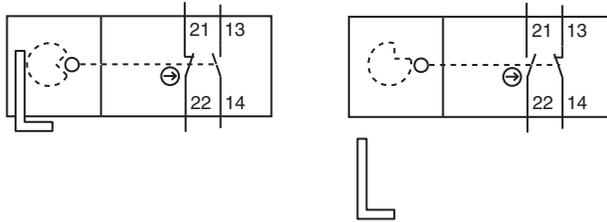


Figure 6.3: Contact block 1NC + 1NO (S200-M1C1-M20)

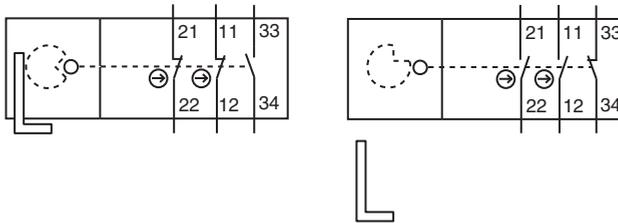


Figure 6.4: Contact block 2NC + 1NO (S200-M4C1-M20, S200-M4C1-M12)

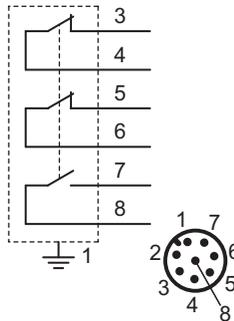


Figure 6.5: Pin assignment of the 8-pin M12 connector (S200-xxx-M12-xxx)

- ↻ Unscrew the housing cover.
- ↻ Connect the contact block according to the application-specific circuit diagram.

- ↪ Tighten cable terminal screws with 0.6–0.8Nm.



- ↪ Tighten the housing cover with 0.8–1.2Nm.



6.2 Safety consideration of the total system

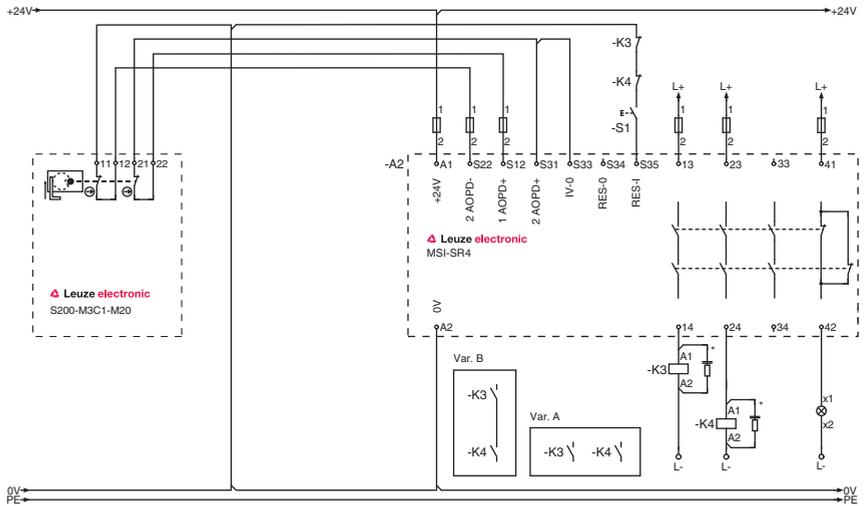
Design principles for the safety-related integration of this product can be found in EN ISO 13849-1. The following product-specific details can be used for this purpose.

B10d NC contact in accordance with EN 61810-2:	2.000.000
Mission time (TM) in accordance with EN ISO 13849-1:	20 years

Possible structure:

- Standard, actuator breakage is not excluded: cat. 1, max PL c
- With 2-channel use and fault exclusion on actuator breakage¹ (mechanical): cat. 3, max PL d with suitable evaluation unit² (e.g., Leuze MSI-SR-ES31-01 safety relay, part no. 50133022).

The user bears the responsibility for the correct integration of the device in a safe total system. For this purpose, the total system must be validated, e.g., in accordance with EN ISO 13849-2.



* Spark extinction circuit, suitable spark extinction provided

Figure 6.6: S200-M3C1-M20 connection example

1. If fault exclusion is permissible on the 1-channel mechanics. Information on fault exclusion: EN ISO 13849-2
2. The safety switch has no internal error detection and cannot assume a safe state in the case of failure. Error detection takes place through the connected safe logic unit.

7 Starting up the device

Prerequisites:

- Safety switch is mounted and connected according to these instructions
- Operating personnel have been trained in the correct use

↪ Test the function of the safety switch (see chapter 8 "Testing").

The safety switch is then ready for use.

8 Testing

S200 safety switches are maintenance-free. Nevertheless, they must be replaced after maximum 1,000,000 switching cycles.

- ↻ Always replace the entire safety switch including actuator.
- ↻ For the testing intervals, observe nationally applicable regulations.
- ↻ Document all tests in a comprehensible manner.

8.1 To be performed prior to the initial start-up by competent personnel

- ↻ Check whether the safety switch is operated according to its specified environmental conditions (see chapter 13 "Technical data").
- ↻ Test to ensure proper mechanical and electrical function (see chapter 8.2 "To be performed periodically by competent personnel").

8.2 To be performed periodically by competent personnel

Mechanical function

- ↻ Stop the dangerous state and open the protective device.
- ↻ Check that the components are securely fastened.
- ↻ Test the cable entry for leaks.
- ↻ Check safety switch and actuator for damage, deposits, deformation and wear.
- ↻ Test several times whether the actuator can be easily moved into the safety switch.

Electrical function



WARNING

Severe accidents may result if tests are not performed properly!

- ↻ Make certain that there are no persons in the danger zone.
- ↻ Stop the dangerous state and open the protective device.
- ↻ Make certain that the machine cannot be started while the protective device is open.
- ↻ Close the protective device and start the machine.
- ↻ Test several times whether the machine stops upon opening of the protective device.
- ↻ Test whether the dangerous state ends before the point of operation can be reached.

8.3 To be performed daily by the operating personnel

 WARNING
<p>Severe accidents may result if tests are not performed properly!</p> <p>↪ Make certain that there are no persons in the danger zone.</p>

- ↪ Stop the dangerous state and open the protective device.
- ↪ Check the safety switch and actuator for damage or tampering.
- ↪ Make certain that the machine cannot be started while the protective device is open.
- ↪ Close the protective device and start the machine.
- ↪ Test whether the machine stops upon opening of the protective device.

9 Cleaning

There must be no soiling (e.g. shavings or dust) present, especially in the deflection head of the safety switch.

Prerequisites for cleaning:

- Protective device is opened and machine is switched off
 - Voltage supply to the safety switch is interrupted
- ↪ Periodically clean the safety switch while the protective device is opened (e.g. with vacuum cleaner).

10 Disposing

- ↪ The nationally valid regulations for electro-mechanical components are to be observed when disposing.

11 Service and support

24-hour on-call service at:

+49 7021 573-0

Service hotline:

+49 7021 573-123

E-mail:

service.protect@leuze.de

Return address for repairs:

Service center

Leuze electronic GmbH + Co. KG

In der Braike 1

D-73277 Owen / Germany

12 Accessories

Table 12.1: Actuators of the AC-AH series for the S200 safety switch

Article	Part no.	Description
AC-AH-S	63000720	Straight
AC-AH-A	63000721	Angled
AC-AH-F4	63000722	Straight, flexible, 4 directions
AC-AH-F2J2	63000723	Straight, flexible, 2 directions, alignable 2 directions
AC-AH-F1J2	63000724	Straight, flexible, 1 direction, alignable 2 directions
AC-AH-F4J2-TK	63000725	Straight, flexible, 4 directions, alignable 2 directions, rotatable head

Table 12.2: Accessories for the S200 safety switch

Article	Part no.	Description
AC-A-M20-12NPT	63000843	Adapter, M20 x 1.5 on 1/2 NPT
AC-PLM-8	63000845	Built-in plug, M12, metal, with internal 8-pin connection cable
AC-KL-AH	63000846	Actuator interlock, for locking the actuator introduction
KD S-M12-5A-P1-050	50133860	PUR, 5-pin, 5 m, shielded, M12 coupling, straight, prefabricated on one end
KD S-M12-5A-P1-100	50133861	PUR, 5-pin, 10 m, shielded, M12 coupling, straight, prefabricated on one end
CB-M12-15000E-5GF	678057	PUR, 5-pin, 15 m, shielded, M12 coupling, straight, prefabricated on one end
CB-M12-25000E-5GF	678058	PUR, 5-pin, 25 m, shielded, M12 coupling, straight, prefabricated on one end
KD S-M12-8A-P1-050	50135128	PUR, 8-pin, 5 m, shielded, M12 coupling, straight, prefabricated on one end

Article	Part no.	Description
KD S-M12-8A-P1-100	50135129	PUR, 8-pin, 10 m, shielded, M12 coupling, straight, prefabricated on one end
KD S-M12-8A-P1-150	50135130	PUR, 8-pin, 15 m, shielded, M12 coupling, straight, prefabricated on one end
KD S-M12-8A-P1-250	50135131	PUR, 8-pin, 25 m, shielded, M12 coupling, straight, prefabricated on one end

12.1 Dimensioned drawings: Accessories

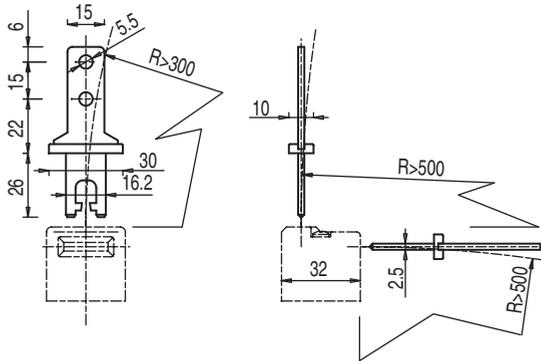


Figure 12.1: AC-AH-S actuator

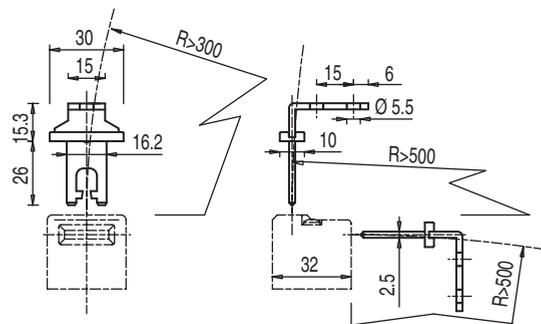


Figure 12.2: AC-AH-A actuator

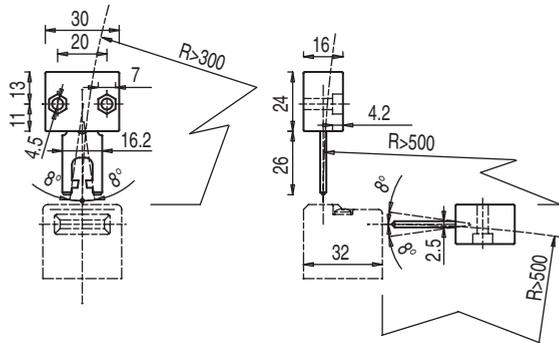


Figure 12.3: AC-AH-F4 actuator

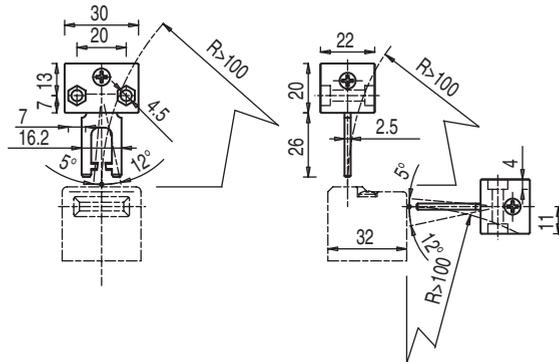


Figure 12.4: AC-AH-F2J2 actuator

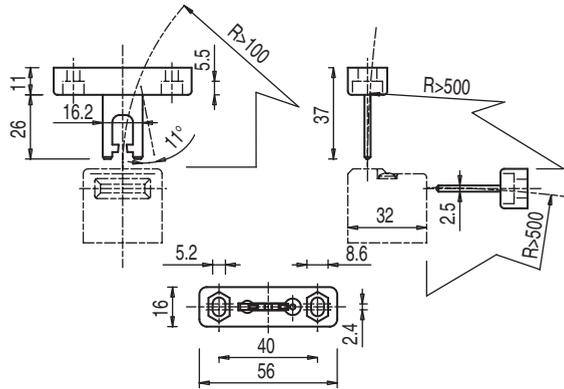


Figure 12.5: AC-AH-F1J2 actuator

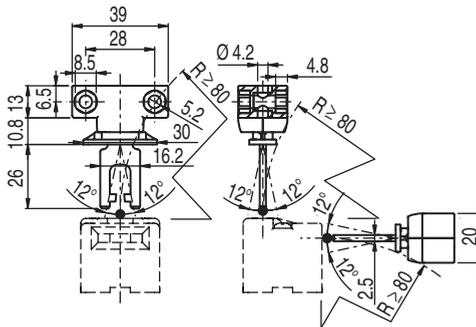


Figure 12.6: AC-AH-F4J2-TK actuator

13 Technical data

Table 13.1: General information

Switch type	Locking device without guard interlocking, with low coding level of the actuator in acc. with EN ISO 14119
External actuator	AC-AH series: straight, angled, resilient, alignable
Approach actuation directions	1 x above, 4 x side (90°)
Approach speed	Min. 1 mm/s, max. 0.5 m/s
Actuation force (pull-out)	10 N
Actuating path with forced separation	S200-M1C1-M20: min. 8.6 mm S200-M3C1-M20: min. 10.2 mm S200-M4C1-M20: min. 8.8 mm S200-M4C1-M12: min. 8.8 mm S200-P5C1-M20: min. 8.8 mm
Mechanical life time in accordance with IEC 60947-5-1	1,000,000 switching cycles
Actuation frequency according to IEC 60947-5-1	Max. 3600 per hour
Mission time (T_M) in accordance with EN ISO 13849-1	20 years
B10d (number of cycles before dangerous failure according to EN 61810-2) for NC contacts	2.000.000

Usage category in accordance with EN 60947-5-1 with screw terminal connection	AC 15 (Ue / Ie): 250V / 6A 400V / 4A 500V / 1A DC 13 (Ue / Ie): 24V / 6A 125V / 1,1A 250V / 0,4A
Maximum load when using 5-pin cables: Maximum load when using 8-pin cables:	24 V / 4 A (see chapter 12 "Accessories") 24 V / 2 A (see chapter 12 "Accessories")
Usage category in accordance with EN 60947-5-1 with M12 plug connection	AC 15: (Ue / Ie) 24V / 2A DC 13: (Ue / Ie) 24V / 2A
Dimensions (dimensional drawings)	see chapter 3 "Device description"

Table 13.2: Safety

Degree of protection	IP 67
Contact protection	Earthing
Recoil tolerance	5mm
Contact allocation	S200-M1xxx: 1NC + 1NO S200-M3xxx: 2NC S200-M4xxx: 2NC + 1NO S200-P5xxx: 3NC
Contact material	Silver alloy
Switching principle	Slow-action contact
Contact opening	Force-fit
Rated insulation voltage with screw terminal connection	400VAC, 600VDC
Rated insulation voltage with M12 plug connection	30 V AC, 36 V DC
Conventional thermal current with screw terminal connection	Max. 10A

Conventional thermal current with M12 plug connection	Max. 2 A
Short-circuit protection according to IEC 60269-1 with screw terminal connection	10 A, 500 V, type aM
Short-circuit protection in accordance with IEC 60269-1 with M12 plug connection	2 A, 500 V, type gG

Table 13.3: Housing

Housing material	S200-M1xxx: metal S200-M3xxx: metal S200-M4xxx: metal S200-P5xxx: glass fiber reinforced, self-extinguishing and shock-resistant technopolymer with double insulation
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Table 13.4: Connection

Number of cable entries	1
Type of cable entry	M20 x 1.5
Conductor cross-section (stranded) for screw terminal connection	Min. 1 x 0.34 mm ² (1 x AWG 22) Max. 2 x 1.5 mm ² (2 x AWG 16)

Table 13.5: Environmental data

Ambient temperature, operation	-25 ... +80 °C
Dirt levels, external, in accordance with EN 60947-1	3



These tables do not apply in combination with additional M12 plug or connecting cable, except where these components are explicitly mentioned.

14 **EC Declaration of Conformity**



EU-/EG-KONFORMITÄTS-ERKLÄRUNG

EU/EC DECLARATION OF CONFORMITY

DECLARATION UE/CE DE CONFORMITE

Hersteller:

Manufacturer:

Constructeur:

**Leuze electronic GmbH + Co. KG
In der Braike 1, PO Box 1111
73277 Owen, Germany**

Produktbeschreibung:
**Sicherheits-Schalter
S20, S200**

Description of product:
**Safety Switch
S20, S200
Serial no. see name plates**

Description de produit:
**Interrupteur de sécurité
S20, S200
N° série voir plaques
signalétiques**

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable:

Angewandte EU-/EG-Richtlinie(n):

Applied EU/EC Directive(s):

Directive(s) UE/CE appliquées:

2006/42/EG
2014/30/EU

2006/42/EC
2014/30/EU

2006/42/CE
2014/30/UE

Angewandte harmonisierte Normen / Applied harmonized standards / Normes harmonisées appliquées:

EN ISO 14119:2013
EN 60947-5-1:2004+A1:2009

EN ISO 13849-1:2015

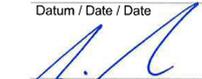
EN 62061:2005+A2:2015

Angewandte technische Spezifikationen / Applied technical specifications / Spécifications techniques appliquées:

Documentationsbefugmáchtigter ist der genannte Hersteller. Kontakt: quality@leuze.de.
Authorized for documentation is the stated manufacturer. contact: quality@leuze.de.
Autorisé pour documentation est le constructeur déclaré. contact: quality@leuze.de
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25.01.2018

Datum / Date / Date


Ulrich Babach,
Geschäftsführer / Managing Director / Gérant


i.A. Fabien Zelenda
Quality Management Central Functions

Leuze electronic GmbH + Co. KG
In der Braike 1
D-73277 Owen
Telefon +49 (0) 7021 513-0
Telefax +49 (0) 7021 513-199
info@leuze.de
www.leuze.com

Leuze electronic GmbH + Co. KG, Sitz Owen, Registergericht Stuttgart, HRA 230712
Parasitzlich haltende Gesellschaften: Leuze electronic Geschäfts-Unterungs-GmbH,
Sitz Owen, Registergericht Stuttgart, HRB 230550
Geschäftsführer: Ulrich Babach
USt-IdNr.: DE 145919201 | Telefonnummer 2554232
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