

SCHMERSAL

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Features

- The safety door-handle system is suitable for all types of safety guards.
- Safety switches and solenoid interlocks can be mounted inside or outside the hazardous area.
- No additional handles or levers are required on the safety guard.
- The door handle is latching.

The STS is available with

- an emergency handle to open the safety guard from within the hazardous area.
- a lockout tag against unintentional locking.
- a centring device. The centring device, which is also suitable as end stop, provides for a proper centring of the safety guard, thus enabling a smooth insertion or extraction of the actuator and can be used with all types of actuators.

Hazardous areas of machines and plants can be so large, that the machine can be entered completely by personnel.

The Machinery Directive requires that in this case personnel cannot be inadvertently locked into the hazardous area.

To prevent this situation, the Schmersal solenoid interlocks can be fitted with an emergency exit system. This allows personnel to evacuate the hazardous area easily. By opening the emergency release, the safety circuit of the machine is interrupted and the machine is shut down.

However, in order not to endanger personnel that could be inside the hazardous area during the machine start-up or restart, a few aspects have to be taken into account.

First of all, the start button must be installed in a location where the operator has a complete overview of the hazardous area. In addition, the start button must not be accessible from inside the hazardous area.

Secondly, it is strongly recommended to use a safety control module with a monitored start circuit. These safety control modules enable only a trailing edge signal from the start button, i.e. they enable when the button is released, not when it is pressed.

The trailing edge control module can thus detect a failure in the start button (e.g. contact welding) and manipulation. The safety control modules of the Schmersal Group include monitored start function.





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Since solenoid interlocks are either locked or unlocked by a solenoid, they require different solutions for manual unlocking in power-off condition (for example during machine installation or maintenance) than for unlocking during machine operation.

Manual release

During the mounting and installation of machinery fitted with spring-to-lock (power to unlock) solenoid interlocks require a way of opening the safety guard during a power failure, usually by means of a tool such as a triangular key. The Schmersal solenoid interlocks are fitted with such an auxiliary unlocking mechanism, the so-called "manual release" (Fig. 2 and 3).

Upon operation of the manual release, the positive break safety contacts are simultaneously opened, thus preventing unexpected machine restart.

Emergency exit

The emergency exit allows an intentional opening of the safety guard from within the machine without tools, for example when personnel trapped inside a machine must quickly evacuate the hazardous area (Fig. 1, 2 and 4).

Emergency release

With an emergency release, the safety guard can be opened from outside the hazardous area without the operator using any tool, for example when a fast intervention into the hazardous area is required to guarantee process safety.

Unlocking is possible without special tools, resetting however requires a repairlike intervention.

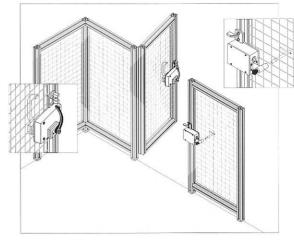


Fig. 2: Mounting of an AZM 415...TEI solenoid interlock with emergency exit inside the hazardous area and manual release outside the hazardous area

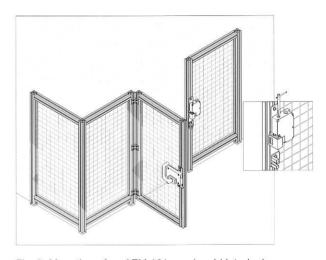


Fig. 3: Mounting of an AZM 161... solenoid interlock with manual release outside the hazardous area

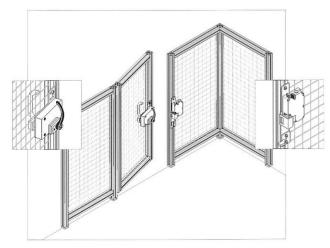


Fig. 1: Mounting of an AZM 161...T solenoid interlock with emergency exit inside the hazardous area

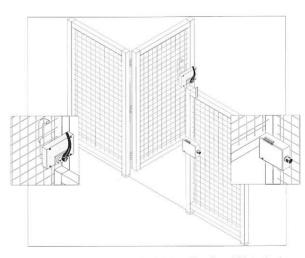


Fig. 4: Mounting of an AZM 415...T solenoid interlock with emergency exit inside the hazardous area

Selection table: Safety door-handle system

Actuator	Mounting position actuator	Door hinge		Safety switch with separate AZ 16
With emergency handle	inside	right	AZM	AZ 16-STS30-01 *
		left [AZM	AZ 16-STS30-02 *
V.	outside	right	AZM	AZ 16-STS30-05
		left [AZM	AZ 16-STS30-06
Without emergency handle	inside	right	AZM	AZ 16-STS30-03 *
		left (AZM	AZ 16-STS30-04 *
	outside	right	AZM	AZ 16-STS30-07
		left	AZM	AZ 16-STS30-08

^{*} For actuators mounted on the inside, mounting plate **MP TG-01** (see page 14, not included) must be used to fix the door handle to the profile.

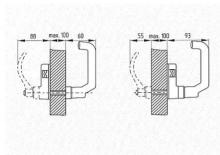
View from inside the hazardous area

View from outside the hazardous area

ate actuator		Solenoid interlocks		Safety sensor
AZ 3350	AZ 415	AZM 161	AZM 415	ICS
AZ 3350-STS30-01 *	AZ 415-STS30-01 *	AZM 161-STS30-01 *	AZM 415-STS30-01 *	-
AZ 3350-STS30-02 *	AZ 415-STS30-02 *	AZM 161-STS30-02 *	AZM 415-STS30-02 *	-
AZ 3350-STS30-05	AZ 415-STS30-05	AZM 161-STS30-05	AZM 415-STS30-05	ICS 4 ST1-B30-05
AZ 3350-STS30-06	AZ 415-STS30-06	AZM 161-STS30-06	AZM 415-STS30-06	ICS 4 ST1-B30-06
AZ 3350-STS30-03 *	AZ 415-STS30-03 *	AZM 161-STS30-03 *	AZM 415-STS30-03 *	-
AZ 3350-STS30-04 *	AZ 415-STS30-04 *	AZM 161-STS30-04 *	AZM 415-STS30-04 *	-
AZ 3350-STS30-07	AZ 415-STS30-07	AZM 161-STS30-07	AZM 415-STS30-07	ICS 4 ST1-B30-07
AZ 3350-STS30-08	AZ 415-STS30-08	AZM 161-STS30-08	AZM 415-STS30-08	ICS 4 ST1-B30-08

AZ 16





- Thermoplastic enclosure
- · Long life
- Double insulated
- 3 cable entries M16 x 1.5
- · Large wiring compartment
- High level of contact reliability with low voltages and currents
- Available with LED
- · Available with AS-Interface Safety at Work
- Shearing force 15,000 N
- · Door handle latching
- · Lockout tag against unintentional locking available
- · Centring device available

Standards: IEC/EN 60947-5-1 EN 1088 BG-GS-ET-15 glass-fibre reinforced thermo-Enclosure: plastic, self-extinguishing

Actuator: stainless steel 1.4301 IP 67 to EN 60529 Protection class: Contact material: silver

Contact type: changeover with double break

Zb, or 2 NC contacts or 3 NC contacts, galvanically separated contact bridges

⊕ IEC 60947-5-1 Switching system: slow action, NC contact

with positive break

Termination: screw terminals -ST: Connector

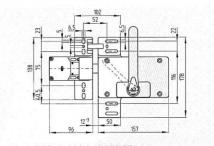
M 12 x 1.4 poles Cable size: max. 2.5 mm² (incl. conductor ferrules)

3x M 16 x 1.5 Cable entry: U_{imp}: 6 kV 500 V 10 A AC-15, DC-13 Utilisation category:

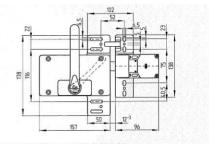
4 A / 230 VAC l_e/U_e: 4 A / 24 VDC Max. fuse rating: 6 A gL/gG D fuse Positive break travel: 8 mm 10 N for each Positive break force: NC contact fitted

Ambient temperature: - 30 °C ... + 80 °C > 1 million operations Mechanical life: Latching force: 30 N for ordering suffix r

AZ 16-STS30-...



AZ 16 STS30-02/-04/-05/-07



AZ 16 STS30-01/-03/-06/-08

Approvals









CE

AZ16	6-①zvrk-②-③	
N°	Replace	Description
1		1 NO/1 NC
	02	2 NC
	03	3 NC
	12	1 NO/2 NC
2		Without LED
	G24	With LED
3		Cable entry M 16
	M20	Cable entry M 20
	ST	Connector M12 x 1
		(only for 2 contacts)

Included in delivery

- Mounting plate for safety switch
- Actuator incl. mounting plate
- Emergency handle (for variant -05 and -06 incl. mounting plate)

Ordering example

To order, first choose the desired safety switch and then the door handle system: for example AZ 16-02zvrk-ST and AZ 16-STS30-01.

Accessories see page 14.

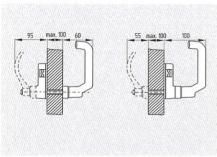
NO	unting	j inside,	
250			

with emergency handle	AZ 16-STS30-01
	AZ 16-STS30-02
without emergency handle	AZ 16-STS30-03
	AZ 16-STS30-04

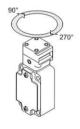
Mounting outside,	
with emergency handle	AZ 16-STS30-05
	AZ 16-STS30-06
without emergency handle	AZ 16-STS30-07
	AZ 16-STS30-08

AZ 3350





- Metal enclosure
- Long life
- High level of contact reliability with low voltages and currents
- 1 cable entry M20 x 1.5
- Shearing force 15,000 N
- Door handle latching
- Lockout tag against unintentional locking available
- · Centring device available
- Actuating head:



Approvals



CE

Ordering details

N°	Replace	Description
1	03-zk	3 NC
	12-zük	1 NO/2 NC
2	1637	Gold contacts
3	U90	Actuating head can be rotated 90° for door hinge left
	U270	270° rotation for door hinge right

Technical data

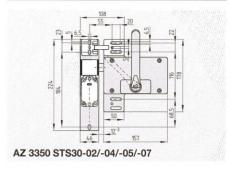
Standards: IEC/EN 60947-5-1 EN 1088 BG-GS-ET-15 Enclosure: light-alloy diecast, paint finish Actuator: brass, blue chrome-plated IP 67 to EN 60529 Protection class: Contact material: silver Contact type: changeover with double break Zb, or 2 NC contacts, or 3 NC contacts, galvanically separated contact bridges ⊕ IEC 60947-5-1 Switching system: slow action, NC contact with positive break Termination: screw terminals Cable size: max. 1.5 mm²

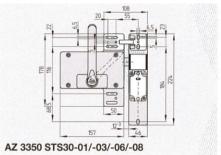
(incl. conductor ferrules)

Positive break travel: 10.7 mm
Positive break force: 5 N for each
NC contact fitted

Ambient temperature: $-30 \, ^{\circ}\text{C} \dots + 90 \, ^{\circ}\text{C}$ Mechanical life: $1 \, \text{million operations}$

AZ 3350-STS30-...





Notice

Included in delivery

- · Mounting plate for safety switch
- Actuator incl. mounting plate
- Emergency handle (For variant -05 and -06 incl. mounting plate)

Ordering example

To order, first choose the desired safety switch and then the door handle system: for example AZ 3350-12-zük-U90 and AZ 3350-STS30-02.

Accessories see page 14.

Ordering details

MOL	ıntınç	ınsıa	e,
10000			200

with emergency handle AZ 3350-STS30-01 AZ 3350-STS30-02

without emergency handle AZ 3350-STS30-03 AZ 3350-STS30-04

Mounting outside,

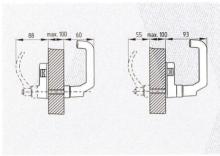
with emergency handle AZ 3350-STS30-05 AZ 3350-STS30-06 without emergency handle AZ 3350-STS30-07

The drawings are always shown with a view to the switch.

AZ 3350-STS30-08

AZ 415





- Metal enclosure
- · 2 switches with different actuating functions in a single enclosure
- Long life
- · High level of contact reliability with low voltages and currents
- 2 cable entries M20 x 1.5
- Adjustable ball latch to 500 N
- Shearing force 30,000 N
- Door handle latching
- · Lockout tag against unintentional locking available
- · Centring device available

IEC/EN 60947-5-1 Standards: EN 1088 BG-GS-ET-15 light-alloy diecast, paint finish

Enclosure: Actuator: brass, blue chromed-plated Protection class: IP 67 to EN 60529 Contact material: silver changeover with Contact type:

double break Zb or 2 NC contacts, galvanically separated contact bridges

⊕ IEC 60947-5-1 Switching system: slow action, NC contact

with positive break Termination: screw terminals Cable size: max, 1.5 mm²

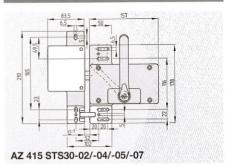
(incl. conductor ferrules) Cable entry: 2x M 20 x 1.5 U_{imp}: 4 kV

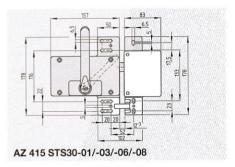
250 V Ui: 6 A Utilisation category: AC-15

4 A / 230 VAC I_e/U_e: 6 A gL/gG D fuse Max. fuse rating: 3.8 mm Positive break travel:

Positive break force: min. 31 N Ambient temperature: - 25 °C ... + 70 °C > 1 million operations Mechanical life: Latching force: 0 - 500 N (adjustable)

AZ 415-STS30-...





Approvals







Ordering details

N°	Replace	Description	1
1		S1: ⊖	S2:
	02/11	2 NC	1 NO/1 NC
	02/02	2 NC	2 NC
	02/20	2 NC	2 NO
	11/11	1 NO/1 NC	1 NO/1 NC

Included in delivery

- · Mounting plate for safety switch
- · Actuator incl. mounting plate
- Emergency handle (For variant -05 and -06 incl. mounting plate)

Ordering example

To order, first choose the desired safety switch and then the door handle system: for example AZ 415-11/11zpk and AZ 415-STS30-01

Accessories see page 14.

Ordering details

Mounting	inside,
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AZ 415-STS30-01 with emergency handle AZ 415-STS30-02 without emergency handle AZ 415-STS30-03 AZ 415-STS30-04

Mounting outside,

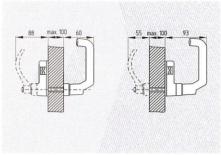
with emergency handle AZ 415-STS30-05 AZ 415-STS30-06 AZ 415-STS30-07 without emergency handle

AZ 415-STS30-08

Safety door-handle system with solenoid interlock

AZM 161





- Thermoplastic enclosure
- 6 contacts
- Manual release, emergency exit or emergency release
- · Long life
- Double insulated 🗆
- High holding force 2,000 N
- · Power to lock / Spring to lock
- · Cage clamps or screws terminals
- 4 cable entries M16 x 1.5
- · AS-Interface Safety at Work available
- Shearing force 15,000 N
- · Door handle latching
- · Lockout tag against unintentional locking available
- · Centring device available

IEC/EN 60947-5-1 Standards: EN 1088 BG-GS-ET-19 Enclosure: glass-fibre reinforced thermoplastic, self-extinguishing

Actuator and

latching bolt: stainless steel 1.4301 Protection class: IP 67 to EN 60529 silver Contact material: Contact type: changeover with

double break Zb, galvanically separated contact bridges

4 kV

⊕ IEC 60947-5-1 Switching system: slow action, NC contact

with positive break Termination: screw terminals or cage clamps

Cable size: max. 1.5 mm² (incl. conductor ferrules) Cable entry: 4x M 16 x 1.5

U_{imp}: 250 V U: 10 A Ithe: AC-15, DC-13 Utilisation category: 4 A / 230 VAC I_e/U_e:

2.5 A / 24 VDC Max. fuse rating: 6 A gL/gG D fuse Positive break travel: 9.5 mm 10 N for each Positive break force:

NC contact fitted 24 VAC/DC

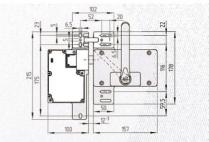
110/230 VAC, 50/60Hz

Solenoid: 100% ED Power consumption: max. 10 W

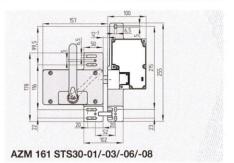
Ambient temperature: - 25 °C ... + 60 °C Mechanical life: > 1 million operations

F_{max}: 2.000 N Latching force: 30 N

AZM 161-STS30-...



AZM 161 STS30-02/-04/-05/-07



Approvals









AZM 161 ①-12/12rk2-3-4

N°	Replace	Description
1	SK	Screw terminals
	CC	Cage clamps
	ST	Connector M 12 x 1
		(wiring, see
		Main Catalogue)
2		Spring to lock
	а	Power to lock
3		Manual release
	T	Emergency exit
	N	Emergency release
4	024	U _s 24 VAC/DC
	110/230	U _s 110 / 230 VAC

Included in delivery

- · Mounting plate for safety switch
- · Actuator incl. mounting plate
- Emergency handle (For variant -05 and -06 incl. mounting plate)

Ordering example

To order, first choose the desired solenoid interlock and then the door handle system: for example AZM SK-12/12rk-T-024 and AZM 161-STS30-01

Accessories see page 14.

Mounting inside,

with emergency handle AZM 161-STS30-01 AZM 161-STS30-02 without emergency handle AZM 161-STS30-03 AZM 161-STS30-04

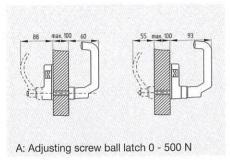
Mounting outside,

with emergency handle AZM 161-STS30-05* AZM 161-STS30-06* without emergency handle AZM 161-STS30-07 AZM 161-STS30-08 (* Only power to lock)

Safety door-handle system with solenoid interlock

AZM 415





- Metal enclosure
- Two switches in one enclosure
- Robust design
- · Long life
- High holding force 3,500 N
- Adjustable ball latch to 500 N
- · Various manual and emergency releases available
- Spring to lock / Power to lock
- 2 cable entries M20 x 1.5
- EEx version available
- Shearing force 30,000 N
- · Door handle latching
- · Lockout tag against unintentional locking available
- · Centring device available

IEC/EN 60947-5-1 Standards: EN 1088 BG-GS-ET-19

light-alloy diecast, paint finish Enclosure: brass, blue chromed-plated Actuator: Protection class: IP 54 or IP 67

to EN 60529

4 A / 230 VAC

Contact material: silver changeover with Contact type: double break Zb or 2 NC contacts,

galvanically separated contact bridges ⊕ IEC 60947-5-1 Switching system: slow action, NC contact

with positive break Termination: screw terminals Cable size: max. 2.5 mm² (incl. conductor ferrules)

2 x M20 x 1.5 Cable entry: U_{imp}: 4 kV 250 V 6 A Utilisation category: AC-15

6 A (slow blow) Max. fuse rating: Positive break travel: 5 mm Positive break force: min. 15 N (depending on the setting of the ball latch)

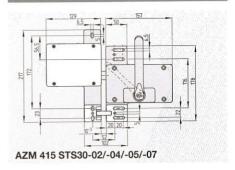
100% ED Solenoid: 12 VDC 24 VAC/DC 110 VAC, 50/60 Hz 230 VAC, 50/60 Hz

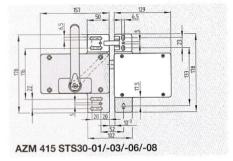
max. 10 W Power consumption: – 25 °C ... + 50 °C Ambient temperature: > 1 million operations Mechanical life: 3.500 N F_{max}:

Holding force of the

integrated ball latch: 0 - 500 N (adjustable)

AZM 415-STS30-...





Approvals









N°	Replace	Description
1		Spring to lock
	а	Power to lock
2		Without manual release
	E	Manual release:
		with triangular key
	F	With triangular key
		(sealing screw)
	RS	Cylinder lock with key
	Т	Emergency exit
	NS	Emergency release
	TE	Emergency exit inside +
		manual release outside,
		interlock mounting outside
	TEI	As above, interlock
		mounting inside

Ie/Ue:

Included in delivery

- · Mounting plate for safety switch
- · Actuator incl. mounting plate
- Emergency handle (For variant -05 and -06 incl. mounting plate)

Ordering example

To order, first choose the desired solenoid interlock and then the door handle system: for example AZM 415-22zpk-TEI and AZM 415-STS30-01

Accessories see page 14.

Ordering details

Mounting inside,

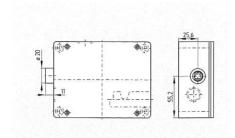
AZM 415-STS30-01 with emergency handle AZM 415-STS30-02 without emergency handle AZM 415-STS30-03 AZM 415-STS30-04

Mounting outside,

AZM 415-STS30-05* with emergency handle AZM 415-STS30-06* AZM 415-STS30-07 without emergency handle AZM 415-STS30-08 (* Only version TE)

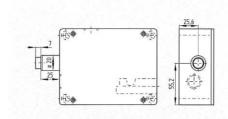
Safety door-handle system with solenoid interlock

A74M 4515=22,00k=



- Manual release
- Release by means of M5 triangular key
- M5 triangular key available as accessory
- For maintenance, setting-up, etc.
- · Only used on units with spring to lock

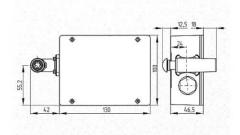
AZM 415-22 tokNS



• Emergency release

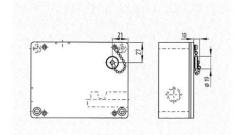
- Emergency release is used where an "inadvertently locked-in" person must leave a dangerous, already interlocked area
- Release by pressing in the lock button
- Resetting can only be carried out by authorised personnel using key
- In released condition, the guard device is protected against unintentional closing

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- Manual release
- Release and resetting using M5 triangular key
- Emergency exit by pushing the red latched button
- Resetting by pulling on the red latched button
- In released condition, the guard device is protected against unintentional closing
- · Interlock mounting outside

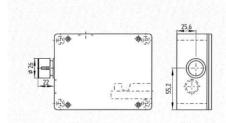
AZM 415-22zokF



Manual release

- Release by means of M5 triangular key
 After removing the sealing screws, manual release can be carried out using an M5 triangular key
- M5 triangular key available as accessory
- · A chain secures the sealing screw against loss
- · Only used on units with spring to lock

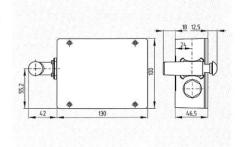
AZM 415-22xokT



Emergency exit

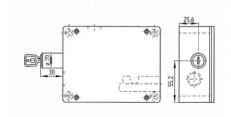
- Emergency exit is used where an "inadvertently locked-in" person must leave a dangerous, already interlocked area
- Emergency exit by pushing the red latched button
- Resetting by pressing in the latching pin
- In released condition, the guard device is protected against unintentional closing

AZM 415-22zpkTE



- Manual release
- Release and resetting using M5 triangular key
- Emergency exit by pushing the red latched button
- Resetting by pulling on the red latched button
- In released condition, the guard device is protected against unintentional closing
- Interlock mounting inside

AZM 415-22xnkBS



Manual release

- Release by means of cylinder lock
- Resetting can only be carried out by authorized personnel using key
- Only used on units with spring to lock
- In released condition, the guard device is protected against unintentional closing

Matitel

The IP protection class depends on the type of release and is indicated by an x or z in the ordering suffix.

Protection class IP 54 for example Protection class IP 67 for example

AZM 415-22xpkNS

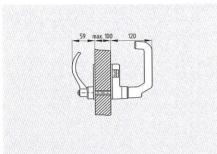
AZM 415-22zpkF

SCHMERSAL 11

Safety door-handle system with coded ICS safety sensor

ICS





- · Metal enclosure with individually coded ICS safety sensor
- · Operation without physical contact
- · Control category 4
- · Actuator ICS-B30 incl. mounting plate for easy mounting
- Axial offset of ± 3 mm possible
- Connector ST1
- Shearing force 67,000 N
- Door handle is latching in closed condition
- Lockout tag against unintentional locking available
- · Centring device available

IEC/EN 60947-5-3 PDF/M Standards: Control category: 4 to EN 954-1 Enclosure: metal capsulated IP 67 to EN 60529 Protection class: II to IEC 60947-1 Protection class: connector, 6 poles, Termination: M 23 x 1 (Conninvers RC)

Operating principle: Switching distance, hysteresis:

13 ± 5 mm, < 15%

Switching status indication:

LED, 2 x identification (green); 1 x fault (red)

Amplitude 1 mm

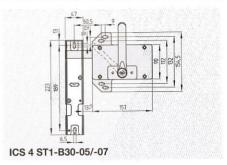
transponder

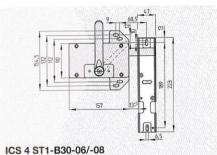
12 ... 24 ... 30 VDC, Input voltage U_{L1,L2}: cyclic: pulse: 1 ... 5 ms; pause: 1 ... 5 ms

Output voltage UA1,A2:

 $U_{L1,L2} - 5 \text{ V} < U_{A1,A2} < U_{L1,L2} - 1 \text{ V}$ < 400 mA for each output Output current: Outputs: 2 semi-conductor outputs, PNP

> 150 ms, typ. 185 ms Response time: > 75 ms, typ. 100 ms Switch-off time: Max. cable length: 300 m 15 ... 24 ... 30 VDC Operating voltage UL+: < 90 mA Operating current le: - 30 °C ... + 60 °C Ambient temperature: 30 g / 11 ms Shock resistance: Resistance to vibrations: 10 ... 55 Hz, ICS 4 ST1-B30-...





Approvals









Orderino delais

ICS 4 ... Ordering details see on the right

Included in delivery

- · ICS... safety sensor
- Mounting plate for safety switch
- · Actuator incl. mounting plate
- Emergency handle incl. mounting plate

Ordering example

To order, simply choose the desired safety sensor including the door handle system: for example ICS 4 ST1-B30-05

Ordering details

Mounting outside,

ICS 4 ST1-B30-05 with emergency handle

ICS 4 ST1-B30-06

ICS 4 ST1-B30-07 without emergency handle ICS 4 ST1-B30-08

The drawings are always shown with a view to the switch.

Accessories see page 14.

Safety door-handle system with coded safety sensor

N (e) d (exc

Operating principle

The ICS safety sensor in combination with its individually coded ICS-B30 actuator is based on the identification principle. The machine can only start when the ICS-B30 actuator is in locked position. Two self-monitoring channels monitor the safety code in the safety sensor. Each channel has an output with two output transistors.

This output monitoring detects short-circuits between the output and the supply and prevents the machine start-up. Earth faults and low voltage of an output cause the two outputs to be switched-off.

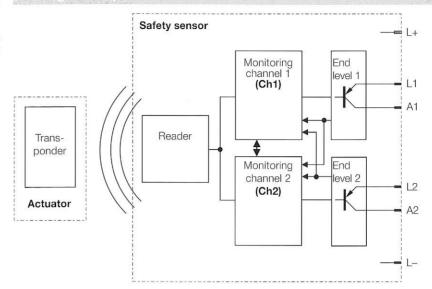
The safety control module typically is a safety PLC or a guard door monitor. Generally, these devices provide the power supply for the safety sensor and its two outputs. The output supply emits cyclic signals for cable breakage or cross-wire monitoring.

Function

The enabling signal for the safety circuit is active for as long as the ICS-B30 actuator is inserted and in locked position in the ICS safety sensor. In this situation, the two LED's (CH1 + CH2) of the ICS safety sensor are green. The hysteresis range is signalled by a red flashing LED (ERR) (the outputs remain enabled and show the typical hysteresis behaviour). When leaving the hysteresis range, the green LED's extinguish and the red LED lights.

The LED indications signal the ICS status (actuated/not actuated) and possible fault situations. Below, a few possibilities are shown:

Wiring example



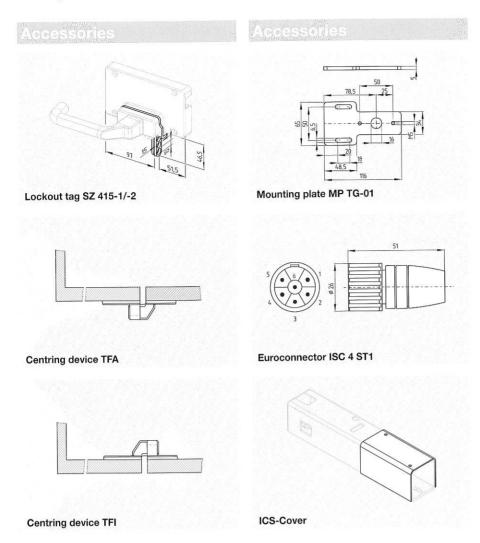
This diagram shows the mounting of the ICS with its dual-channel structure

LED CH1 LED ERR LED CH2

Situation	LED CH1	LED CH2	LED ERR
Situation	(green)	(green)	(red)
Normal operation			
Sensor actuated	ON	ON	OFF
Sensor not actuated	OFF	OFF	ON
Hysteresis range	ON	ON	flashes
Fault situations			
Malfunction CH1	OFF	ON	ON
Malfunction CH2	ON	OFF	ON
Short-circuit CH1*	flashes	flashes	ON
Short-circuit CH2*	flashes	flashes	ON

^{*} For supply voltage (L+ or L-)

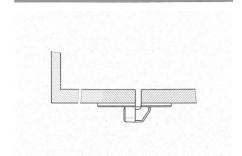
SCHMERSAL 13



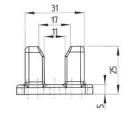
Ordering details		Ordering details		
Accessories general		Accessories only for AZ and AZM		
Lockout tag		Mounting plate	MP TG-01	
forSTS30-01/-03/-06/-08	SZ 415-1			
forSTS30-02/-04/-05/-07	SZ 415-2	Accessories only for ICS		
Centring device:		Euroconnector M23, 6 poles	ICS 4 ST1	
Mounting outside	TFA-010	Cover for connector	ICS-Cover	
Mounting inside	TFI-010			
Centring device only for AZ 16-STS30				
and AZM 161-STS30:				
Mounting outside	TFA-020			
Mounting inside	TFI-020			
(Dimensions see page 15)				

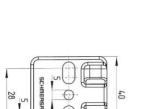
Centring device TF.

TFA

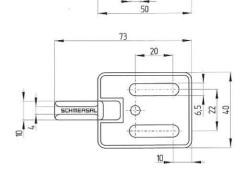


- Mounting outside
- Self-centring of the guard door
- End stop
- Suitable for all types of actuators
- Actuator can be easily inserted or extracted

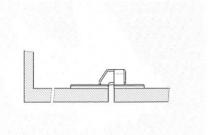




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510



- Mounting inside
- Self-centring of the guard door
- End stop
- Suitable for all types of actuators
- Actuator can be easily inserted or extracted

