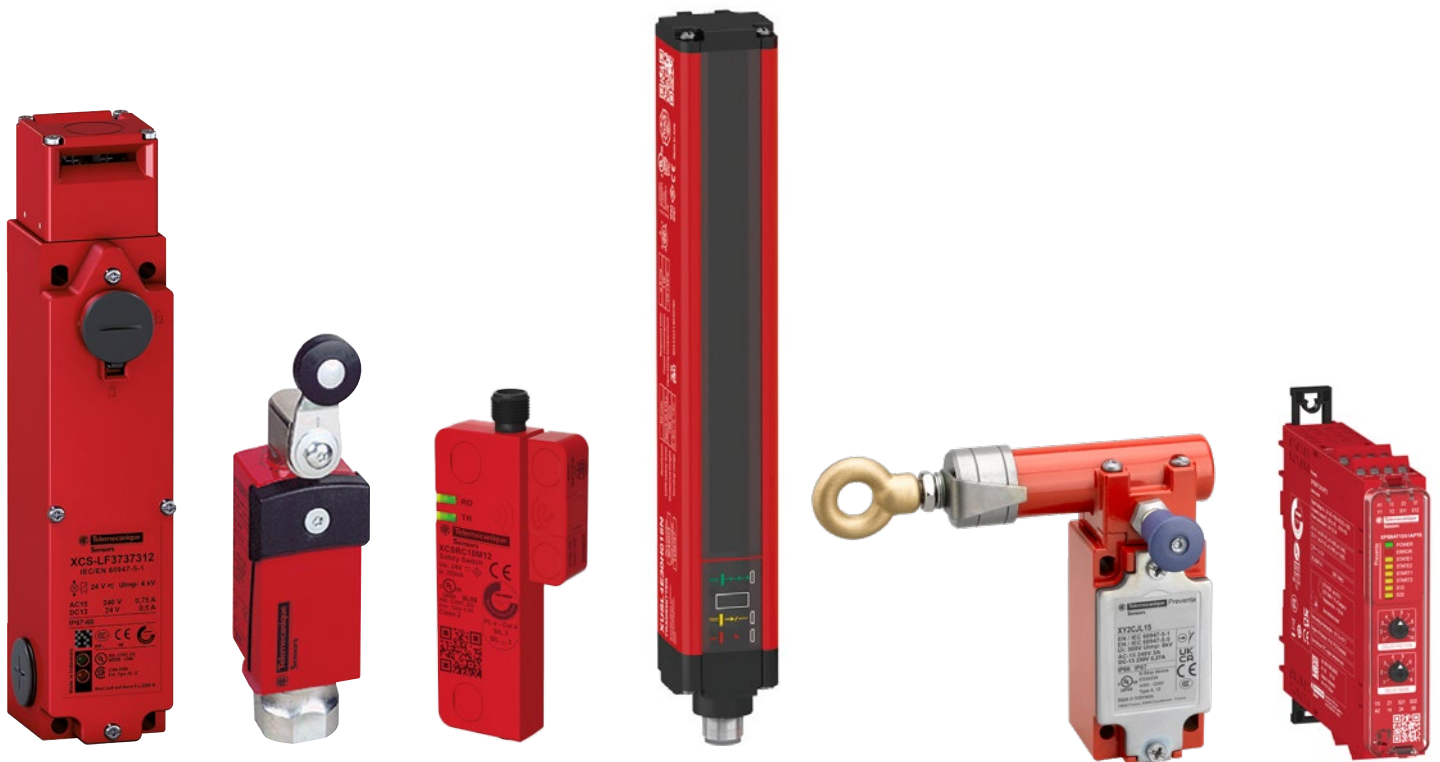

Telemecanique Sensors

Safety sensing

Panorama



> Telemecanique Sensors

Simply easy!

Simplicity



Expertise



Proximity



Founded over 90 years ago, **Telemecanique Sensors** specializes in sensors and sensor-related technology.

Telemecanique Sensors is a global player, present in more than 20 countries, with products distributed worldwide through a broad network of partners.

As a global leader in the sensors business, we help our customers select the right technology to get the best performance and reliability from their machines.

Each sensor type is engineered to address specific requirements across industrial applications, providing reliable and precise detection capabilities to ensure operational efficiency and safety:

Inductive: Electronic technology

Detects or measures objects placed within the magnetic field generated by the sensor and produce output signal.

Photoelectric: Electronic technology

Detects and measures objects or quantities by emitting a beam. Alterations in the return signal enable to measure the object.

Ultrasonic: Electronic technology

Detects and measure objects regardless of shape, color or materials by emitting sound waves.

Safety switches & sensors: Electromechanical & electronic technology

Ensures industrial applications are safe to operate.

Wide product range, notably light curtains or interlock switches.

RFID: Electronic technology

Uses radio frequencies to localize and identify tagged items.

No line-of-sight required, multiple tags can be read simultaneously.

Limit Switch: Electromechanical technology

Automatically detects or senses the presence of an object.

Determines the passing, positioning and end of travel of an object.

We consider the protection of the environment as a key element of our strategy. We exceed environmental regulations and more than 95% of our products are RoHS compliant and free from REACH related substances of very high concern.

Our facilities are also all compliant with ISO 14 001 global standard.

Our worldwide network

The Telemecanique Sensors is in charge of product development from R&D to production and benefits from a worldwide network of specialist and generalist distributors.

Focused on 3 core values – **Simplicity**, **Proximity** and **Expertise** – we have become experts in factory automation sensors as well as specialists in demanding applications, making our customers' lives «simply easy!».

Since 2023, Telemecanique Sensors is part of **YAGEO Group** leading enterprise for electronic components with capabilities on a global scale, including production and sales facilities in Asia, Europe, and the Americas.

Telemecanique Sensors safety sensing



...because just **ONE** workplace accident is too many...

For over 90 years, Telemecanique Sensors has developed quality sensor products to help engineers ensure their machines are safe to operate and meet all the industry's applicable safety standards.

Whether you need to secure a hazardous area, automate hazardous machinery shutdown when a specific area is entered, or provide workers with a readily available means to shut down hazardous machinery, Telemecanique Sensors has you covered with a variety of machine safety solutions.

Lock it. [Pages 4 - 8]



Telemecanique Sensors XCSLE and XCSLF solenoid locking safety interlock switches are designed to help protect personnel in hazardous machines applications where doors and guards must remain closed until the conditions behind the door or guard are no longer hazardous. The XCSLF switch will resist up to an industry leading 675 pounds (Fmax=3,000 Newtons) to keep the doors and guards in place. We also have a selection of safety switches for light machines without inertia with hinged doors, covers or protective guards; industrial and light machines without inertia for monitoring access guards, and safety magnetic switches.

Restrict access to it when it's running. [Pages 9 - 10]

ECOLAB



For hazardous machine environments utilizing doors or guards to separate workers from hazardous machinery, the XCSR RFID safety sensor provides a TÜV certified safety solution that comes with a Cat4/PL e - SIL3 rating. Easy to install and virtually tamper-proof, this contactless RFID safety sensor shuts down potentially hazardous machinery as soon as the door or designated guard to the machine area begins to open. This reliable solution comes in standalone, series, and single models.

Telemecanique Sensors' XUSL light curtains are designed to help protect persons operating or working in the vicinity of hazardous machinery by stopping the machine as soon as one of the light beams is broken. XUSL light curtains are built for rugged manufacturing environments, withstanding temperatures from -30° C to 55° C and carrying an IP67 rating (IP69K special models with **ECOLAB** conformity are available for XUSL4E and XUSL2E). Telemecanique Sensors new XUSL4M Light Curtains with integrated muting provide efficient detection of machine operators with uninterrupted automation processes.

Provide an easy way to shut it down. [Page 11]



The XY2CJ Emergency Stop Cable Pull Switch provides workers an emergency stop function of hazardous machinery with a single, quick pull. It replaces a number of emergency stop buttons over 100 feet / 30 meters. The XY2CJ Cable Pull Switch from Telemecanique Sensors is certified by UL-NiSD, allowing it to function as an emergency stop. For longer applications (up to 656 feet / 200 meters wide), the XY2CED Double-Sided Cable Pull Switch provides a UL-NiSD certified safety solution.

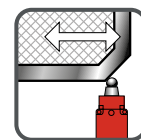
Monitor it and shut it down. [Page 12]



The Preventa XPS safety modules monitor status of machines and shut down machines when receiving input from safety switches and sensors. Up to 9 functions including Electronic and Eletromechanical inputs are embedded in one module to cover your flexible safety need. Removable terminals make your installation and maintenance more efficient.

The following pages detail the above safety detection solutions and more!

Safety interlocking switches



Choose : **1** > **2** > **3** > **4** > **Reference**

Body Function Contact Connection

For industrial machines with inertia for monitoring access guards

XCSLF
Metal

205
51
43.5

Locking on de-energisation of solenoid (1)

24V AC/DC (3)

Locking on de-energisation of solenoid with emergency by mushroom head pushbutton (1)

24V AC/DC (3)

ISO M20
1/2"NPT
M23 connector

Safety contacts (2) NC+NO Slow 2NC Slow NC+2NO Slow 2NC+NO Slow 3NC Slow

Solenoid contacts NC+NO Slow 2NC Slow NC+2NO Slow 2NC+NO Slow 3NC Slow

ISO M20 XCSLF2525312 XCSLF2727312 XCSLF3535312 XCSLF3737312 XCSLF3838312

1/2"NPT XCSLF2727313 XCSLF3535313 XCSLF3737313 XCSLF3838313

M23 connector XCSLF353531M3 XCSLF373731M3 XCSLF383831M3

XCSLF3535412 XCSLF3737412

XCSLF3737413

XCSLF353541M3 XCSLF373741M3

XCSE
Metal

146
44
98

Locking on de-energisation of solenoid (1)

24V AC/DC (3)

ISO M20 XCSE5312 XCSE7312 XCSE8312

Pg13.5 XCSE5311 XCSE7311 XCSE8311

1/2"NPT XCSE5313 XCSE7313 XCSE8313

Safety contacts (2) NC+2NO Slow 2NC+NO Slow 3NC Slow

Solenoid contacts NC+NO Slow NC+NO Slow NC+NO Slow

- (1) To choose the type of key actuator, please refer to Accessories
(2) Schematic diagrams shown represent the contact states whilst the actuator is inserted in the head of the switch.
(3) Some models with 120V AC/DC or 230V AC/DC are available.

For industrial machines without inertia for monitoring access guards

XCSA
Metal

113.5
44
40

Without locking of the actuator (1)

ISO M20 XCSA502 XCSA702 XCSA802

Pg13.5 XCSA501 XCSA701 XCSA801

1/2"NPT XCSA503 XCSA703 XCSA803

Safety contacts (2) NC+2NO Slow 2NC+NO Slow 3NC Slow

XCSB
Metal

113.5
44
52

Manual unlocking by button (1)

M20 XCSB502 XCSB702 XCSB802

Pg13.5 XCSB501 XCSB701 XCSB801

1/2"NPT XCSB503 XCSB703 XCSB803

Safety contacts (2) NC+2NO Slow 2NC+NO Slow 3NC Slow

XCSC
Metal

113.5
44
52

Manual unlocking by key lock (1)

M20 XCSC502 XCSC702 XCSC802

Pg13.5 XCSC501 XCSC701 XCSC801

1/2"NPT XCSC503 XCSC703 XCSC803

Safety contacts (2) NC+2NO Slow 2NC+NO Slow 3NC Slow

- (1) To choose the type of key actuator, please refer to Accessories
(2) Schematic diagrams shown at the bottom of this page represent the contact states while the actuator is inserted in the head of the switch.

Accessories for safety interlocking switches

Key actuator **Straight key actuator** **Key actuator with wide fixing** **Pivoting key actuator** **Key actuator with latch for sliding doors**

XCSLF, XCSE, XCSA, XCSB & XCSC XCSZ01 XCSZ02 XCSZ03 XCSZ05

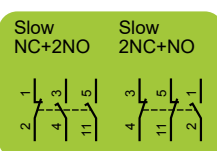
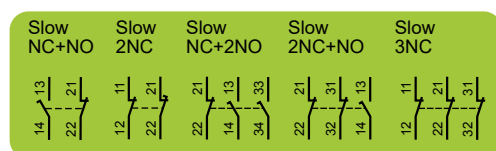
Connection information

ISO M20 Tapped M20x1.5 for ISO cable gland

Pg13.5 Tapped for a N°13 cable gland

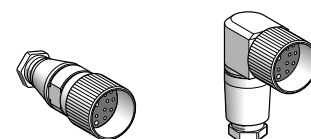
1/2" NPT Tapped for a 1/2" NPT

M23 to XCSLF*M3 products** Connector M23, 19 pin



Cabling XCS

M23
19 pin

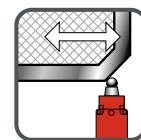


Connectors (female)

straight elbowed

XZCC23FDM190S XZCC23FCM190S

Safety interlocking switches



Choose : **1** > **2** > **3** > **4** > Reference
 Body Function Contact Connection

For light machines with inertia

XCSLE
Plastic

Locking on de-energisation of solenoid (1)

24V AC/DC (3)

Safety contacts (2)	NC+NO Slow	2NC Slow	NC+2NO Slow	2NC+NO Slow	3NC Slow
Solenoid contacts	NC+NO Slow	2NC Slow	NC+2NO Slow	2NC+NO Slow	3NC Slow
ISO M20	XCSLE2525312	XCSLE2727312	XCSLE3535312	XCSLE3737312	XCSLE3838312
1/2"NPT		XCSLE2727313			
M23 connector			XCSLE353531M3	XCSLE373731M3	

XCSTE
Plastic

Locking on de-energisation of solenoid (1)

24V AC/DC (3)

Safety contacts (2)	NC+NO Slow	2NC Slow
Solenoid contacts	NC+NO Slow	2NC Slow
ISO M16	XCSTE5312	XCSTE7312
Pg11	XCSTE5311	XCSTE7311
1/2"NPT	XCSTE5313	XCSTE7313

- (1) To choose the type of key actuator, please refer to Accessories
 (2) Schematic diagrams shown represent the contact states whilst the actuator is inserted in the head of the switch.
 (3) Some models with 120V AC/DC or 230V AC/DC are available.

For light machines without inertia

XCSPA
Plastic

Without locking of the actuator (1)

Safety contacts (2)	NC+NO Slow	2NC Slow	NC+2NO Slow	2NC+NO Slow
ISO M16	XCSPA592	XCSPA792	XCSPA892	XCSPA992
Pg11	XCSPA591	XCSPA791	XCSPA891	XCSPA991
1/2"NPT	XCSPA593	XCSPA793	XCSPA893	XCSPA993

XCSTA
Plastic

Without locking of the actuator (1)

Safety contacts (2)	NC+2NO Slow	2NC+NO Slow	3NC Slow
ISO M16	XCSTA592	XCSTA792	XCSTA892
Pg11	XCSTA591	XCSTA791	XCSTA891
1/2"NPT	XCSTA593	XCSTA793	XCSTA893

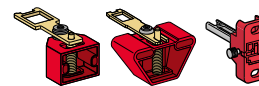
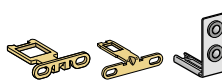
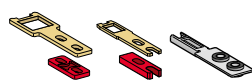
XCSM
Plastic

Without locking of the actuator (1)

Safety contacts (2)	NC+NO Slow	2NC Slow	2NC+NO Slow	3NC Slow
Cable 2 m	XCSMP59L2	XCSMP79L2	XCSMP70L2	XCSMP80L2
Cable 5 m	XCSMP59L5	XCSMP79L5	XCSMP70L5	XCSMP80L5
Cable 10 m			XCSMP70L10	XCSMP80L10

- (1) To choose the type of key actuator, please refer to Accessories
 (2) Schematic diagrams shown represent the contact states whilst the actuator is inserted in the head of the switch.

Accessories for safety interlocking switches



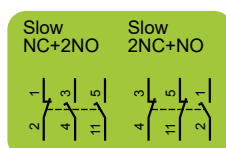
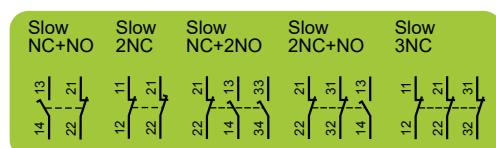
Key actuator	Straight key actuator	Key actuator with wide fixing	Pivoting key actuator
XCSLE	XCSZ01	XCSZ02	XCSZ03
XCSTE, XCSPA, XCSTA	XCSZ11	XCSZ12	XCSZ13
XCSMP	XCSZ81	XCSZ84	XCSZ83 (1)

- (1) The key actuator XCSZ83 can be used just for right-hand doors. To ordered for left-hand doors, the reference will be XCSZ85.

Connection information

- ISO M16** Tapped M16x1.5 for ISO cable gland
ISO M20 Tapped M20x1.5 for ISO cable gland
Pg11 Tapped for a N°11 cable gland
Pg13.5 Tapped for a N°13 cable gland
1/2" NPT Tapped for a 1/2" NPT

M23 to XCSLE*M3 products** Connector M23, 19 pin

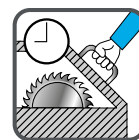


Cabling XCS

	Connectors (female)	
M23	straight	elbowed
19 pin	XZCC23FDM190S	XZCC23FCM190S



Safety switches with rotary level



Choose : **1** > **2** > **3** > **4** > Reference
 Body Function Contact Connection

For light machines without inertia with hinged doors, covers or protective guards

XCSP	Plastic	Safety contacts (1)	Operator position				
			Elbowed lever, operator to left	Elbowed lever, operator to centre	Elbowed lever, operator to right	Straight lever, operator to right OR to left (2)	Straight lever, operator to centre
ISO M16	88	NC+NO slow	XCSP592	XCSP582	XCSP572	XCSP562	XCSP552
		2NC slow	XCSP792	XCSP782	XCSP772	XCSP762	XCSP752
		NC+2NO slow				XCSP862	
		2NC+NO slow				XCSP962	
Pg11	30	NC+NO slow	XCSP591	XCSP581	XCSP571	XCSP561	XCSP551
		2NC slow	XCSP791	XCSP781	XCSP771	XCSP761	XCSP751
		2NC+NO slow		XCSP981			
		1/2"NPT	XCSP593	XCSP583	XCSP573	XCSP563	XCSP553
1/2"NPT	30	2NC slow	XCSP793	XCSP783	XCSP773	XCSP763	XCSP753

- (1) Schematic diagrams shown represent the contact states whilst the lever is in the rest position.
 (2) To change the operator from right to left, rotate the turret head by 180°.

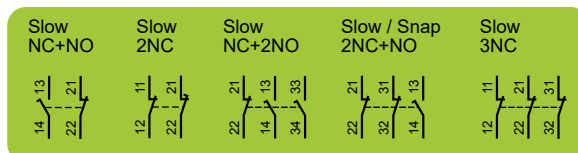
XCSPR	Plastic	Spindle length 30 mm (2)	Safety contacts (1)	Contact states			
				NC+NO Slow	2NC Slow	NC+2NO Slow	2NC+NO Slow
ISO M16	96	30	ISO M16	XCSPR552	XCSPR752		XCSPR952
			Pg11	XCSPR551	XCSPR751	XCSPR851	XCSPR951
			1/2"NPT	XCSPR553	XCSPR753		

- (1) Schematic diagrams shown represent the contact states whilst the spindle is the rest position.
 (2) For switches with 80 mm spindle, replace the 2nd number in the reference by 6. Ex: XCSPR562.

XCSTR	Plastic	Spindle length 30 mm (2)	Safety contacts (1)	Contact states		
				NC+2NO Slow	2NC+NO Slow	3NC Slow
ISO M16	117	30	ISO M16	XCSTR552	XCSTR752	XCSTR852
			Pg11	XCSTR551	XCSTR751	XCSTR851
			1/2"NPT (3)	XCSTR553	XCSTR753	XCSTR853

- (1) Schematic diagrams shown represent the contact states whilst the spindle is the rest position.
 (2) For switches with 80 mm spindle, replace the 2nd number in the reference by 6. Ex: XCSTR562
 (3) Supply with one metal adaptor DE9RA1012 (Pg11 1/2"NPT) and one blanking plug. For a second 1/2"NPT conduit entry please order a second adaptor.

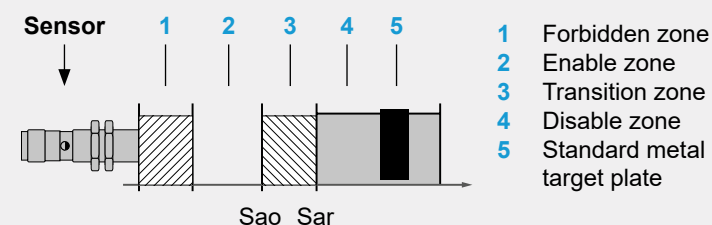
Connection information
ISO M16 Tapped M16x1.5 for ISO cable gland
Pg11 Tapped for a N°11 cable gland
1/2" NPT Tapped for a 1/2" NPT



Fail Safe Inductive sensors, SIL2, PL d, Category 2

Choose : **1** > **2** > **3** > **4** > Reference
 Sensing distance Output type Connection Output function

Technical explanations



Forbidden zone (1)

This zone ensures that it will not be possible to defeat the solution with simple elements or standard tools (ie: glue a coin on the front face). It is a minimum distance maintaining safe condition in all aspects. In this zone, both sensor outputs are opened.

Assured operating distance (Sao)

When the target approaches the sensor, the contacts will change state no later than Sao max and remain in the same state as the target continues to approach the switch. At distances beyond the Sao min, the contacts enter in the forbidden zone, not maintaining a closed condition in all aspects.

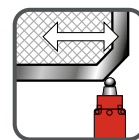
Assured release distance (Sar)

Minimum distance from the sensor that the target must move to assure the reset of the sensor.

Standard metal target plate (5)

According to IEC 947-5-2 at an ambient temperature of 20°C.

Safety limit switches



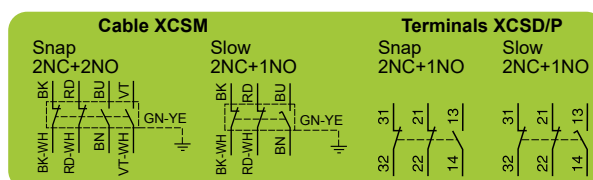
Choose : **1** > **2** > **3** > **4** > Reference
 Body Function contact Connection

For industrial and Light machines without inertia for monitoring access guards

XCSD Metal 	Safety contacts (3)	2NC+NO Snap	Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever	Steel roller lever
			ISO M20	XCSD3910P20	XCSD3902P20	XCSD3918P20	XCSD3919P20
			Pg13.5	XCSD3910G13	XCSD3902G13	XCSD3918G13	XCSD3919G13
			1/2" NPT	XCSD3910N12	XCSD3902N12	XCSD3918N12	XCSD3919N12
	2NC+NO Slow		ISO M20	XCSD3710P20	XCSD3702P20	XCSD3718P20	XCSD3719P20
			Pg13.5	XCSD3710G13	XCSD3702G13	XCSD3718G13	XCSD3719G13
			1/2" NPT	XCSD3710N12	XCSD3702N12	XCSD3718N12	XCSD3719N12
XCSP Plastic 	Safety contacts (3)	2NC+NO Snap	Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever	Steel roller lever
			ISO M20	XCSP3910P20	XCSP3902P20	XCSP3918P20	XCSP3919P20
			Pg13.5	XCSP3910G13	XCSP3902G13	XCSP3918G13	XCSP3919G13
			1/2" NPT	XCSP3910N12	XCSP3902N12	XCSP3918N12	XCSP3919N12
XCSM Metal 	Safety contacts (3)	2NC+NO Slow	Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever	Steel roller lever
			Cable 1m	XCSM3710L1	XCSM3702L1	XCSM3715L1	XCSM3716L1
			Cable 2m	XCSM3710L2	XCSM3702L2	XCSM3715L2	XCSM3716L2
			Cable 5m	XCSM3710L5	XCSM3702L5	XCSM3715L5	XCSM3716L5
	2NC+2NO Snap		Cable 1m	XCSM4110L1	XCSM4102L1	XCSM4115L1	XCSM4116L1
			Cable 2m	XCSM4110L2	XCSM4102L2	XCSM4115L2	XCSM4116L2
			Cable 5m	XCSM4110L5	XCSM4102L5	XCSM4115L5	XCSM4116L5

(1) Schematic diagrams shown represent the contact states whilst the actuator is the rest position.

Connection information
ISO M20 Tapped M20x1.5 for ISO cable gland
Pg13.5 Tapped for a N°13 cable gland
1/2" NPT Tapped for a 1/2" NPT



NEW



Flush mountable



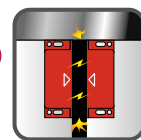
Short



			M12		M18		M30	
		Sensing distance	2 mm	4 mm	5 mm	8 mm	10 mm	15 mm
DC4	PNP	cable	XS512BSPDL2	XS112B3PDL2	XS518BSPDL2	XS518B3PDL2	XS530BSPDL2	XS130B3PDL2
		connector	XS512BSPDM12	XS112B3PDM12	XS518BSPDM12	XS518B3PDM12	XS530BSPDM12	XS130B3PDM12

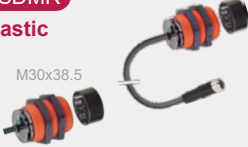
									
		Screw terminal M 20		Connector M 12, 4 pin					
Cubic					Flush mountable		Non flush mountable		
									
					20 mm		40 mm		
					XS8C2A1PCM12		XS8C2A4PCM12		
	40x40x40								
	DC4	PNP	NO+NC						
	40x40x117								
	DC4	PNP	NO+NC						
					XS8C4A1PCP20		XS8C4A4PCP20		

Contactless safety coded magnetic switches



Choose : **1** > **2** > **3** > **4** > Reference **ECOLAB**
 Body Operating zone contact or safety level Connection

For industrial machines without inertia with imprecise guidance and frequent washing

Coded magnetic switches			
XCSDMR		Operating zone (1) Sao: 8 mm / Sar: 20 mm	
Plastic		Safety contacts (2)	NC + NO 2NC
	Without LED	Cable 2 m (3)	XCSDMR5902 XCSDMR7902
		M12 4P	XCSDMR590L01M12 XCSDMR790L01M12
	With LED	Cable 2 m (3)	XCSDMR5912 XCSDMR7912
		M12 4P	XCSDMR591L01M12 XCSDMR791L01M12

Coded magnetic switches			
XCSDMC		Operating zone (1) Sao: 5 mm / Sar: 15 mm	
Plastic		Safety contacts (2)	NC + NO 2NC
	Without LED	Cable 2 m (3)	XCSDMC5902 XCSDMC7902
		M8 4P	XCSDMC590L01M8 XCSDMC790L01M8
	With LED	Cable 2 m (3)	XCSDMC5912 XCSDMC7912
		M8 4P	XCSDMC591L01M8 XCSDMC791L01M8

Coded magnetic switches					
XCSDMP		Operating zone (1) Sao: 8 mm / Sar: 20 mm			
Plastic		Safety contacts (2)	NC + NO	2NC	NC + 2NO 2NC + NO
	Without LED	Cable 2 m (3)	XCSDMP5902 XCSDMP7902	XCSDMP5002 XCSDMP7002	
		M12 4P or 8P (4)	XCSDMP590L01M12 XCSDMP790L01M12	XCSDMP500L01M12 XCSDMP700L01M12	
	With LED	Cable 2 m (3)	XCSDMP5912	XCSDMP5012 XCSDMP7012	
		M12 4P or 8P (4)	XCSDMP591L01M12 XCSDMP791L01M12	XCSDMP501L01M12 XCSDMP701L01M12	

(1) Sao: Assured operating distance; Sar: Assured tripping distance

(2) Schematic diagrams shown represent the contact states whilst the magnet is in front of the switch.

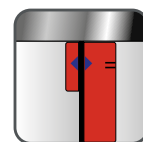
(3) For switches with other cable lengths, replace the last number in the reference by 5 for 5 meters or 10 by 10 meters. Ex: **XCSDMC5905**

(4) M12 4P for XCSDMP59/79 (2 contacts), M12 8P for XCSDMP50/70 (3 contacts)

Accessories for Safety magnetic switches

Pre-wired female connectors		M8 4 pin	M12 8 pin	M12 4 pin	M12 8 pin (A coding)
Straight	2 m	XZCP0941L2	XZCP29P11L2	XZCP1141L2	XZCP29P12L2
	5 m	XZCP0941L5	XZCP29P11L5	XZCP1141L5	XZCP29P12L5
	10 m	XZCP0941L10	XZCP29P11L10	XZCP1141L10	XZCP29P12L10

RFID contactless safety switches



Choose : **1** > **2** > **3** > **Reference** **ECOLAB**

Product Type Pairing mode XCSR: connection XCSR: EDM type

For industrial machines without inertia with imprecise guidance in high coded level

XCSR: Miniature		Maximum Safety Level	PL=e, category4 conforming to EN/ISO 13849-1 and SIL 3 conforming to EN/IEC 61508	
			Single Point to point connection	Advance (5) EDM(4) + Series connection
	Pairing mode	Connection		
	Unique pairing	2m cable	XCSR10L02	
		5m cable	XCSR10L05	
		10m cable	XCSR10L10	
		M12 connector	XCSR10M12	XCSR13M12
		100mm cable + M12 connector	XCSR10L01M12	XCSR13L01M12
	3 times pairing (1)(2)	2m cable	XCSR30L02	
		5m cable	XCSR30L05	
		10m cable	XCSR30L10	XCSR30M12
		M12 connector	XCSR30M12	XCSR30L01M12
		100mm cable + M12 connector	XCSR30L01M12	
	Generic pairing (3)	2m cable	XCSRML0L02	
		5m cable	XCSRML0L05	
		10m cable	XCSRML0L10	
		M12 connector	XCSRML0M12	XCSRML3M12
		100mm cable + M12 connector	XCSRML0L01M12	XCSRML3L01M12

All references are sold with both switch and actuator in same package.

(1) 3 times pairing available for both single and Advance version, with blank actuator XCSRK1BU, by follow automatic pairing procedure

(2) If more than 3 times required, please purchase Advance version to have unlimited times thru wire pairing procedure according to user manual

(3) Generic pairing does not require pairing procedure, with blank actuator XCSRK1BL, which is classified as low coded according to ISO 14119.

(4) Both Automatic and Manual restart are embedded.

(5) Advance = Standalone + Daisy-chain

		Maximum Safety Level	PL=e, category4 conforming to EN/ISO 13849-1 and SIL 3 conforming to EN/IEC 61508		
 XCSR: Compact		Single	Daisy-chain	Standalone	
	Pairing mode	Point to point connection	Series connection (2) (3)	EDM with Automatic restart	EDM with Manual restart
	Unique pairing	XCSR10M12	XCSR12M12	XCSR11AM12	XCSR11MM12
	3 times pairing (1)	XCSR30M12	XCSR32M12	XCSR31AM12	XCSR31MM12

All references are sold with both switch and actuator in same package.

(1) This version allows a new pairing of a blank transponder XCSRK2A3 (1 plant pairing by default + maximum 2 new pairings). As soon as a blank transponder has been paired, the former transponder is no longer valid. A blank transponder can be matched only once.

(2) The use of the serial diagnosis unit XCSR210MDB is optional but highly recommended. This diagnosis unit provides and localizes the state of every XCSR sensors of the chain (open/close safe guard status, presence of errors, cabling issue, ...).

(3) The first sensor of serial connexion must be coupled with the loopback chain adaptor XCSRZE.

(4) Both Automatic and Manual restart are embedded.

RFID contactless safety switch accessories

Type		Connection M12 - Pre-wired - for XCSR «Single» or «Daisy Chain» or «Advance» (1)			
		Miniature: XCSR10M12 - Compact: XCSR30M12 / XCSR32M12 (1)			
Pre-wired length (cable material: PUR)		2 m	5 m	10 m	20 m
Connector M12 / 5-pin Female	Straight - Pre-wired	XZCP11V12L2	XZCP11V12L5	XZCP11V12L10	XZCP11V12L20
	90° - Pre-wired	XZCP12V12L2	XZCP12V12L5	XZCP12V12L10	XZCP12V12L20

Type		Connection M12 - Pre-wired - for XCSR «Standalone» or «Advance»			
		Miniature: XCSR13M12/L01M12 - Compact: XCSR31M12			
Pre-wired length (cable material: PUR)		2 m	5 m	10 m	20 m
Connector M12 / 8-pin Female	Straight - Pre-wired	XZCP29P12L2	XZCP29P12L5	XZCP29P12L10	XZCP29P12L20
	90° - Pre-wired	XZCP53P12L2	XZCP53P12L5	XZCP53P12L10	XZCP53P12L20

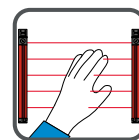
Type		Connection 2xM12 - Jumpers for XCSR «Daisy Chain»				
		Compact: XCSR32M12, between two switches				
Pre-wired length (cable material: PUR)		0,3 m	3 m	5 m	10 m	25 m
2 Connectors Straight Female - M12 / 5 pins	Pre-cabled for serial link directly between the sensors	XZCR1111064D03	XZCR1111064D3	XZCR1111064D5	XZCR1111064D10	XZCR1111064D25

Type		Connection 2xM12 - Jumpers for XCSR «Advance»			
		Miniature: XCSR13M12/L01M12			
Jumper length (cable material: PUR)		1 m	2 m	5 m	10 m
2 Straight Connectors Female/Male M 12 / 5 pins	Jumper for serial connection between Y connectors	XZCR1511064D1	XZCR1511064D2	XZCR1511064D5	XZCR1511064D10

Type		Y Splitter for XCSR «Advance»	
		Miniature: XCSR13M12/L01M12	
	M12 Y Splitter	To connect first and second switches in series	XCSRZY1
	M12, 8-8-5 pins, Female-Male-Female	To connect following switches in series	XCSRZY2

(1) For the connection of the last safety switch of the chain (XCSR12M12 or XCSR32M12) to the safety control unit

Safety light curtains



Choose : **1** > **2** > **3** > **4** > **Reference**

Standard type (2 or 4) and detection capacity
Height protected
Sensing range
Embedded functions

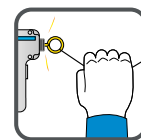
XUSL Type 4		Finger detection (resolution 14 mm)	Hand detection (resolution 30 mm)	Body detection (detection thru 2-3 or 4 beams)
Finger, hand and body detection (5)				
PLc/Cat4 - SIL3				
Height protected (mm)		Automatic or manual start/restart		
		External Device Monitoring (EDM)		
160		XUSL4E14F016N	XUSL4E30H016N	
260		XUSL4E14F026N	XUSL4E30H026N	
310		XUSL4E14F031N	XUSL4E30H031N	
460		XUSL4E14F046N	XUSL4E30H046N	
510 - 2 beams				XUSL4E2BB051N
610		XUSL4E14F061N	XUSL4E30H061N	
760		XUSL4E14F076N	XUSL4E30H076N	
810 - 3 beams				XUSL4E3BB081N
910		XUSL4E14F091N	XUSL4E30H091N	
910 - 4 beams				XUSL4E4BB091N
1060		XUSL4E14F106N	XUSL4E30H106N	
1210		XUSL4E14F121N	XUSL4E30H121N	
1360		XUSL4E14F136N	XUSL4E30H136N	
1510		XUSL4E14F151N	XUSL4E30H151N	
1660		XUSL4E14F166N	XUSL4E30H166N	
1810		XUSL4E14F181N	XUSL4E30H181N	
XUSL4M				Integrated muting (1) (4)
510 - 2 beams				XUSL4MA2BB051N (2)
810 - 3 beams				XUSL4MB2BB051N (3)
910 - 4 beams				XUSL4MA3BB081N (2)
				XUSL4MB3BB081N (3)
				XUSL4MA4BB091N (2)
				XUSL4MB4BB091N (3)

- (1) Possible association with pre-built/pre-adjusted muting arms XUSZAS* (single beam muting sensors) and XUSZAM* multi-beam muting sensors.
- (2) Hardware and Software configuration (with SoMute software), partial muting and integrated muting lamp
- (3) Hardware configuration only
- (4) For hand detection, some models are available in 30mm and 40mm resolutions, in different protected heights
- (5) IP69K special models with ECOLAB conformity are available for XUSL4E and XUSL2E

XUSL Type 2		Hand detection (resolution 30 mm)	Body detection (thru 2-3 or 4 beams)
Hand and body detection (5)			
PLc/Cat2 - SIL1			
Height protected (mm)		Automatic or manual start/restart	
		External Device Monitoring (EDM)	
160		XUSL2E30H016N	
260		XUSL2E30H026N	
310		XUSL2E30H031N	
460		XUSL2E30H046N	
- 2 beams			XUSL2E2BB051N
610		XUSL2E30H061N	
760		XUSL2E30H076N	
810 - 3 beams			XUSL2E3BB081N
910		XUSL2E30H091N	
910 - 4 beams			XUSL2E4BB091N
1060		XUSL2E30H106N	
1210		XUSL2E30H121N	
1360		XUSL2E30H136N	
1510		XUSL2E30H151N	
1660		XUSL2E30H166N	
1810		XUSL2E30H181N	

Accessories	For use with...	
Pre-wired connectors	XUSL2E*/4E*/4M*	XUSL2E*/4E*
	M12 connector 5 pins - Female	
	Transmitter	
	Length	Straight 90°
	2 m	XZCP1164L2 XZCP1264L2
	5 m	XZCP1164L5 XZCP1264L5
	10 m	XZCP1164L10 XZCP1264L10
	15 m	XZCP1164L15 XZCP1264L15
	25 m	XZCP1164L25 XZCP1264L25
	For use with XUSL2E* / 4E*	
	M12 connector 8 pins - Female	
	Receiver	
	Length	Straight 90°
	2 m	XZCP29P11L2 XZCP53P11L2
	5 m	XZCP29P11L5 XZCP53P11L5
	10 m	XZCP29P11L10 XZCP53P11L10
	15 m	XZCP29P11L15 XZCP53P11L15
	25 m	XZCP29P11L25 XZCP53P11L25
	For use with XUSL4M*	
	M12 connector 12 pins - Female	
	Receiver	
	Length	Straight
	5 m	XZCP57V12L5
	10 m	XZCP57V12L10
	15 m	XZCP57V12L15

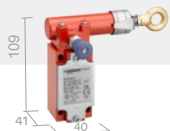
Emergency stop rope pull switches



Choose : **1** > **2** > **3** > **4** > Reference

Body and cable length Function Contact Connection

XY2CJ		Threaded cable entries - anchoring point	NC+NO	2NC	2NC+NO
Metal	20 meters cable length	Pg13.5 - straight	XY2CJS15 (1)	XY2CJS17 (1)	XY2CJS19 (1) (2)
	30 meters cable length	Pg13.5 - right side	XY2CJR15 (1)	XY2CJR17 (1)	XY2CJR19 (1) (2)
	30 meters cable length	Pg13.5 - left side	XY2CJL15 (1)	XY2CJL17 (1)	XY2CJL19 (1) (2)



- (1) For ISO M20, just add «H29» to the part number (example: XY2CJS15 becomes XY2CJS15H29)
 (2) For 1/2" NPT, just add «H7» to the part number (example: XY2CJS19 becomes XY2CJS19H7)

XY2CH	30 meters cable length	Tapped cable entries	NC+NO	2NC	2NC+NO
Metal	Reset by booted pushbutton	Pg13.5	XY2CH13250	XY2CH13270	XY2CH13290
		ISO M20	XY2CH13250H29	XY2CH13270H29	XY2CH13290H29
		1/2" NPT	XY2CH13250H7	XY2CH13270H7	XY2CH13290H7



- (3) Also available with pilot light

XY2CE	70 meters cable length	Plain hole cable entries	NC+NO	2NC	2NC+2NO
Metal	Reset by booted pushbutton; Anchor point on right side.	Pg13.5	XY2CE1A250	XY2CE1A270	XY2CE1A290
		1/2" NPT	XY2CE1A250H7	XY2CE1A270H7	XY2CE1A290H7
	Reset by booted pushbutton; Anchor point on left side.	Pg13.5	XY2CE2A250	XY2CE2A270	XY2CE2A290
		1/2" NPT	XY2CE2A250H7	XY2CE2A270H7	XY2CE2A290H7



- (4) Also available with pilot light

XY2CED	≥ 2 x 35 meters cable length and ≤ 2 x 100 meters cable length	Plain hole cable entries	2 NC + 2 NO slow break
Metal	Reset by booted pushbutton	Pg13.5	XY2CEDA290 (5)
		1/2" NPT	XY2CEDA290H7
	Reset by key release (N° 455) pushbutton	Pg13.5	XY2CEDA590 (5)



- (5) Also available with pilot light. An adjustment shim and 2 end springs are supplied with XY2CED switches

Accessories	XY2CJ	XY2CH	XY2CE	XY2CED
Mounting kit	XY2CZ9425 (5)	XY2CZ9330 (6)	XY2CZ9570 (7)	XY2CZ96200 (8)

- (5) Kit contents: 1 galvanised cable L: 30.5 (Ø 3.2 mm), quick tensioner, cable supports, and end spring.
 (6) Kit contents: 1 galvanised cable L: 30.5 m (Ø 3.2 mm) and end spring.
 (7) Kit contents: 1 galvanised cable L: 70.5 m (Ø 5 mm), turnbuckle, cable supports, cable end protectors and end spring.
 (8) Kit contents: 2 galvanised cables L: 100.5m (Ø 5mm) and quick tensioners.

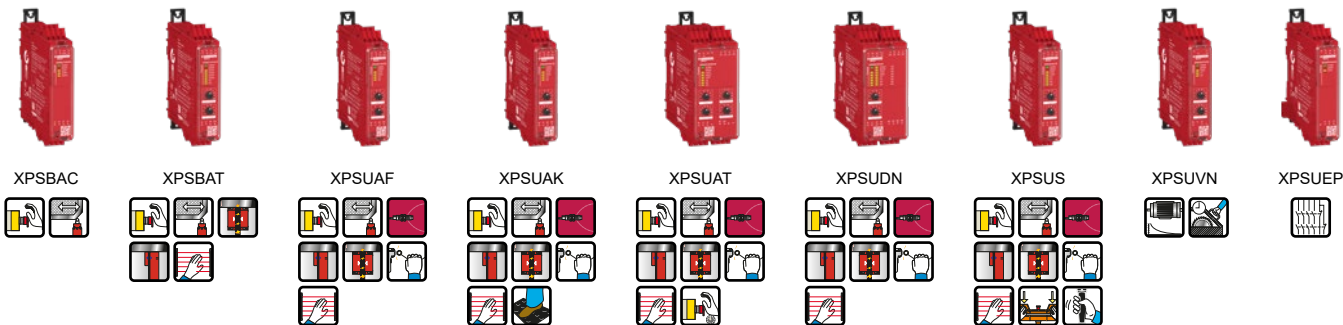
Safety modules for monitoring

Choose : 1 > 2 > 3 > Reference
Function Supply voltage Terminal

NEW



		XPSBAC	XPSBAT	XPSUAF	XPSUAK	XPSUAT	XPSUDN	XPSUS	XPSUVN	XPSUEP
24-48 VDC/VAC	Screw terminal	XPSBAC14APTE	XPSBAT12A1APTE	XPSUAF13APTE	XPSUAK12APTE	XPSUAT13A3APTE	XPSUDN13APTE	XPSUS12APTE	XPSUVN11APTE	XPSUEP14APTE
	Spring terminal	XPSBAC14ACTE	XPSBAT12A1ACTE	XPSUAF13ACTE	XPSUAK12ACTE	XPSUAT13A3ACTE	XPSUDN13ACTE	XPSUS12ACTE	XPSUVN11ACTE	XPSUEP14ACTE
240 VDC/VAC	Screw terminal	XPSBAC34APTE		XPSUAF33APTE	XPSUAK32APTE	XPSUAT33A3APTE	XPSUDN33APTE	XPSUS32APTE	XPSUVN31APTE	XPSUEP34APTE
	Spring terminal	XPSBAC34ACTE		XPSUAF33ACTE	XPSUAK32ACTE	XPSUAT33A3ACTE	XPSUDN33ACTE	XPSUS32ACTE	XPSUVN31ACTE	XPSUEP34ACTE



Maximum achievable safety level	PL e / Category 4 conforming to ISO 13849-1 SILCL3 conforming to IEC 62061 SIL3 conforming to IEC61508								
Number of outputs	4 NO + 2 NC	2 NO, 1 NO delayed (selectable from 0.1s to 15min) 1 solid state	3 NO 1 pulsed output	2 NO 1 redundant NC, 1 pulsed output	3 NO immediate, 3 NO delayed (selectable from 0.1 s to 15 min. by 10 steps of 10 steps of 0.1 s which can be multiplied by 1, 10w, 100, and 1,000) or immediate + 1 NC	3 NO 1 redundant NC, 1 pulsed output	2 NO 1 pulsed output	1 NO, 1 pulsed solid state, 1 solid state	4 NO + 2NC
Range	XPSBAC	XPSBAT	XPSUAF	XPSUAK	XPSUAT	XPSUDN	XPSUS	XPSUVN	XPSUEP
Display	5 LEDS	8 LEDS	6 LEDS	6 LEDS	8 LEDS	16 LEDS	6 LEDS	5 LEDS	3 LEDS
Synchronization time between inputs	Fixed			Selectable				Fixed	/
Input channels	2	2	2	2	3	12	4	3	/
Start input	Automatic, manual & monitored start								
Control configurable pulsed outputs	NA		3 ON/OFF		4 ON/OFF	7 ON/OFF	3 ON/OFF		
Module width	22.5 mm/0.886 in.				45 mm/1.77 in.			22.5 mm/0.886 in.	



XPSESTE

Sealing strips,
Sold in lot of 10



XPSECTE

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