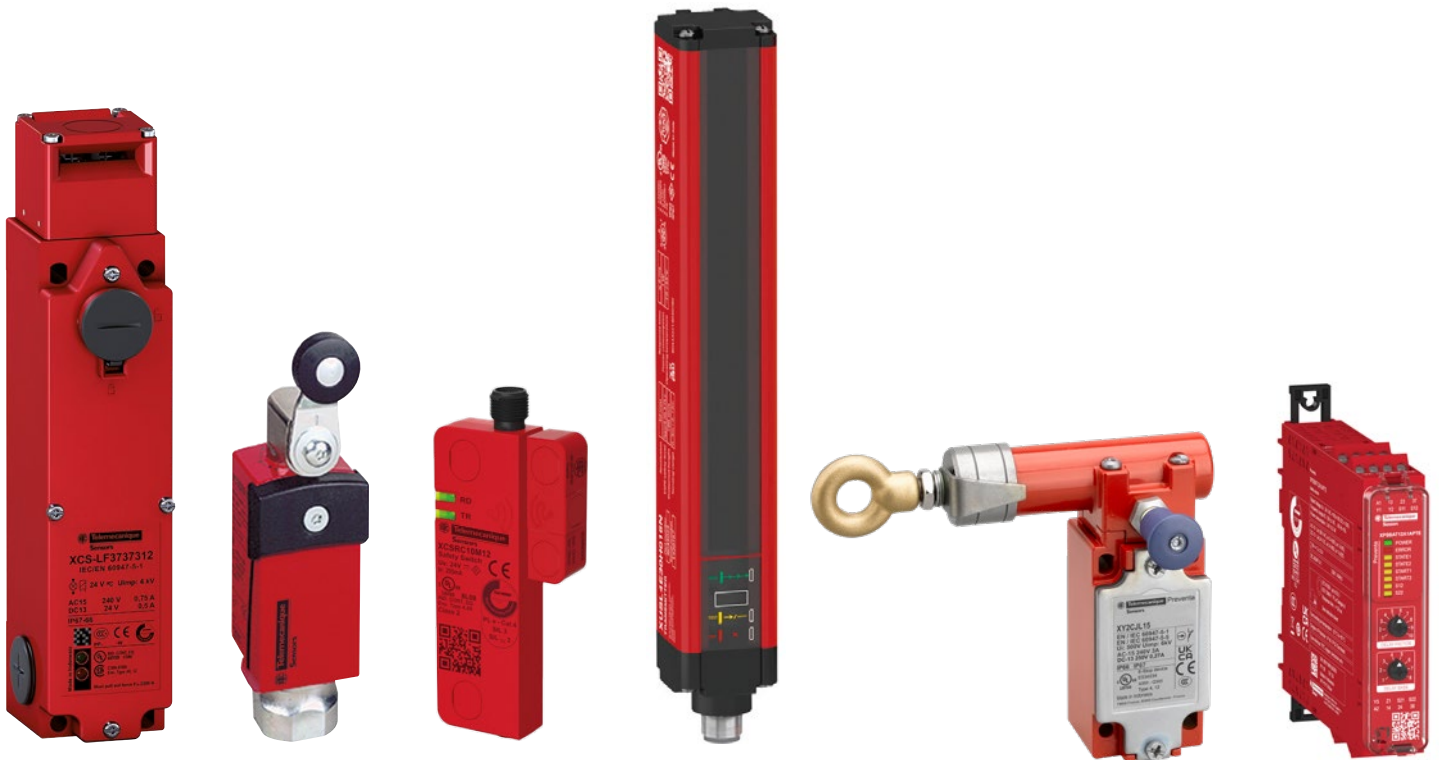


Telemecanique Sensors

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.

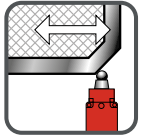
Monitor it and shut it down. [Page 12]



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

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)

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
ISO M20			XCSLF3535412	XCSLF3737412	
1/2"NPT				XCSLF3737413	
M23 connector			XCSLF353541M3	XCSLF373741M3	

XCSE
Metal

Locking on de-energisation of solenoid (1)

24V AC/DC (3)

Safety contacts (2)	NC+2NO Slow	2NC+NO Slow	3NC Slow
Solenoid contacts	NC+NO Slow	NC+NO Slow	NC+NO Slow
ISO M20	XCSE5312	XCSE7312	XCSE8312
Pg13.5	XCSE5311	XCSE7311	XCSE8311
1/2"NPT	XCSE5313	XCSE7313	XCSE8313

- (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

Without locking of the actuator (1)

Safety contacts (2)	NC+2NO Slow	2NC+NO Slow	3NC Slow
ISO M20	XCSA502	XCSA702	XCSA802
Pg13.5	XCSA501	XCSA701	XCSA801
1/2"NPT	XCSA503	XCSA703	XCSA803

XCSB
Metal

Manual unlocking by button (1)

Safety contacts (2)	NC+2NO Slow	2NC+NO Slow	3NC Slow
M20	XCSB502	XCSB702	XCSB802
Pg13.5	XCSB501	XCSB701	XCSB801
1/2"NPT	XCSB503	XCSB703	XCSB803

XCSC
Metal

Manual unlocking by key lock (1)

Safety contacts (2)	NC+2NO Slow	2NC+NO Slow	3NC Slow
M20	XCSC502	XCSC702	XCSC802
Pg13.5	XCSC501	XCSC701	XCSC801
1/2"NPT	XCSC503	XCSC703	XCSC803

- (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

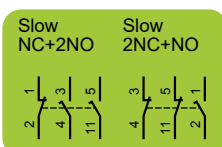
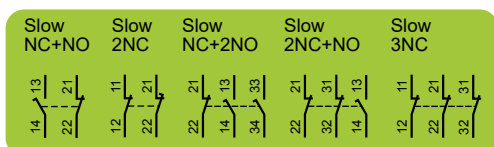
Connection information

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 XCSLFM3 products** Connector M23, 19 pin

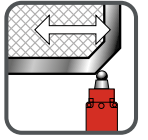


Cabling XCS

Connectors (female)

M23	straight	elbowed
19 pin	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

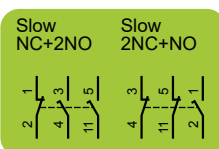
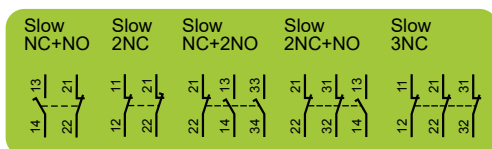
Key actuator	Straight key actuator	Key actuator with wide fixing	Pivoting key actuator
XCSLE	XCSZ01	XCSZ02	XCSZ03
XCSTE, XCSPA, XCSTA	XCSZ11	XCSZ12	XCSZ13
XCSMP	XCSZ81	XCSZ84	XCSZ83 (1)

(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

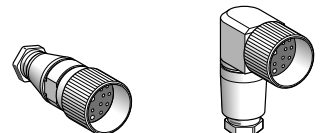
- ISO M16** Tapped M16x1.5 for ISO cable gland
- ISO M20** Tapped M20x1.5 for ISO cable gland
- Pg11** Tapped for a N°11 cable gland
- Pg13.5** Tapped for a N°13 cable gland
- 1/2" NPT** Tapped for a 1/2" NPT

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



Cabling XCS

	Connectors (female)	
	straight	elbowed
M23 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 L 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	NC+NO slow	XCSP L592	XCSP L582	XCSP L572	XCSP L562	XCSP L552
	2NC slow	XCSP L792	XCSP L782	XCSP L772	XCSP L762	XCSP L752
	NC+2NO slow				XCSP L862	
	2NC+NO slow				XCSP L962	
Pg11	NC+NO slow	XCSP L591	XCSP L581	XCSP L571	XCSP L561	XCSP L551
	2NC slow	XCSP L791	XCSP L781	XCSP L771	XCSP L761	XCSP L751
	2NC+NO slow		XCSP L981			
1/2" NPT	NC+NO slow	XCSP L593	XCSP L583	XCSP L573	XCSP L563	XCSP L553
	2NC slow	XCSP L793	XCSP L783	XCSP L773	XCSP L763	XCSP L753

- (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°.

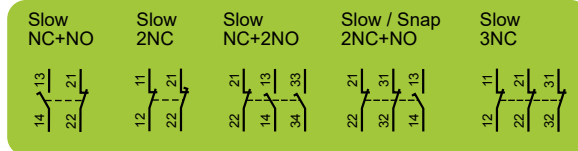
XCSP R Plastic	Spindle length 30 mm (2)	Safety contacts (1)			
		NC+NO Slow	2NC Slow	NC+2NO Slow	2NC+NO Slow
ISO M16		XCSP R552	XCSP R752		XCSP R952
	Pg11	XCSP R551	XCSP R751	XCSP R851	XCSP R951
		1/2" NPT	XCSP R553	XCSP R753	

- (1) Schematic diagrams shown represent the contact states whilst the spindle is in the rest position.
- (2) For switches with 80 mm spindle, replace the 2nd number in the reference by 6. Ex: XCSP R562.

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

- (1) Schematic diagrams shown represent the contact states whilst the spindle is in 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.

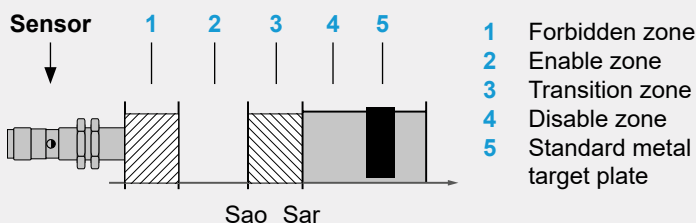
Connection information
ISO M16 Tapped M16x1.5 for ISO cable gland
Pg11 Tapped for a N°11 cable gland
1/2" NPT Tapped for a 1/2" NPT



Fail Safe Inductive sensors, SIL2, PI 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.

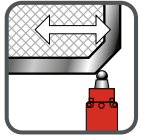
Assured release distance (Sar)

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



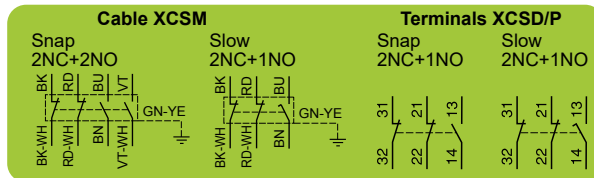
Choose: **1** > **2** > **3** > **4** > Reference
 Body Function contact Connection

For industrial and Light machines without inertia for monitoring access guards

Model	Material	Safety contacts (3)	Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever	Steel roller lever
XCSD	Metal	2NC+NO Snap	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	2NC+NO Snap	ISO M20	XCSP3910P20	XCSP3902P20	XCSP3918P20	XCSP3919P20
			Pg13.5	XCSP3910G13	XCSP3902G13	XCSP3918G13	XCSP3919G13
			1/2" NPT	XCSP3910N12	XCSP3902N12	XCSP3918N12	XCSP3919N12
		2NC+2NO Slow	Cable 1m	XCSP3710L1	XCSP3702L1	XCSP3715L1	XCSP3716L1
			Cable 2m	XCSP3710L2	XCSP3702L2	XCSP3715L2	XCSP3716L2
			Cable 5m	XCSP3710L5	XCSP3702L5	XCSP3715L5	XCSP3716L5
XCSP	Plastic	2NC+2NO Snap	Cable 1m	XCSP4110L1	XCSP4102L1	XCSP4115L1	XCSP4116L1
			Cable 2m	XCSP4110L2	XCSP4102L2	XCSP4115L2	XCSP4116L2
			Cable 5m	XCSP4110L5	XCSP4102L5	XCSP4115L5	XCSP4116L5
		2NC+2NO Slow	Cable 1m	XCSM3710L1	XCSM3702L1	XCSM3715L1	XCSM3716L1
			Cable 2m	XCSM3710L2	XCSM3702L2	XCSM3715L2	XCSM3716L2
			Cable 5m	XCSM3710L5	XCSM3702L5	XCSM3715L5	XCSM3716L5

(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

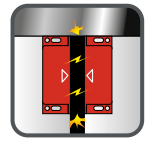


Mounting	Sensing distance	DC4	PNP	cable	connector	M12	M18	M30
Flush mountable	2 mm					XS512BSPDL2	XS518BSPDL2	XS530BSPDL2
	4 mm					XS112B3PDL2	XS118B3PDL2	XS130B3PDL2
Short	5 mm					XS512BSPDM12	XS518BSPDM12	XS530BSPDM12
	8 mm					XS112B3PDM12	XS118B3PDM12	XS130B3PDM12
	10 mm							
	15 mm							



Mounting	Dimensions	Sensing distance	DC4	PNP	NO+NC	Flush mountable	Non flush mountable
Cubic	40x40x40	20 mm				XS8C2A1PCM12	XS8C2A4PCM12
	40x40x117	40 mm				XS8C4A1PCP20	XS8C4A4PCP20

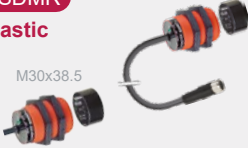

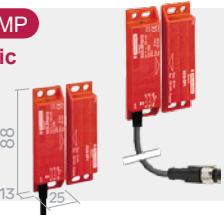
Contactless safety coded magnetic switches



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

1 Body 2 Operating zone 3 contact or safety level 4 Connection

For industrial machines without inertia with imprecise guidance and frequent washing

		Coded magnetic switches				
XCSDMR Plastic 	Operating zone (1) Sao: 8 mm / Sar: 20 mm					
	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		
XCSDMC Plastic 	Operating zone (1) Sao: 5 mm / Sar: 15 mm					
	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		
XCSDMP Plastic 	Operating zone (1) Sao: 8 mm / Sar: 20 mm					
	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**

1 Product Type
2 Pairing mode
3 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	
	Pairing mode	Connection	Single Point to point connection	Advance (5) EDM(4) + Series connection
	Unique pairing	2m cable	XCSR10L02	
		5m cable	XCSR10L05	
		10m cable	XCSR10L10	
	3 times pairing (1)(2)	M12 connector	XCSR10M12	XCSR13M12
		100mm cable + M12 connector	XCSR10L01M12	XCSR13L01M12
		2m cable	XCSR30L02	
	Generic pairing (3)	5m cable	XCSR30L05	
		10m cable	XCSR30L10	XCSR30M12
		M12 connector	XCSR30M12	XCSR30L01M12
		100mm cable + M12 connector	XCSR30L01M12	
		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

XCSR: Compact		Maximum Safety Level	PL=e, category4 conforming to EN/ISO 13849-1 and SIL 3 conforming to EN/IEC 61508		
Pairing mode	Single Point to point connection	Daisy-chain Series connection (2) (3)	Standalone		
Unique pairing	XCSR10M12	XCSR12M12	EDM with Automatic restart	EDM with Manual restart	
3 times pairing (1)	XCSR30M12	XCSR32M12	XCSR11AM12	XCSR11MM12	
			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 adaptator 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: XCSR*M12 - Compact: XCSR*0M12 / XCSR*2M12 (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: XCSR*3M12/L01M12 - Compact: XCSR*1*M12				
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

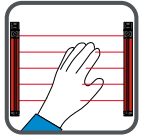
Type	Connection 2xM12 - Jumpers for XCSR «Daisy Chain»					
	Compact: XCSR*2M12, between two switches					
Pre-wired length (cable material: PUR)	0,3 m	3 m	5 m	10 m	25 m	
2 Connectors Straight Female - M12 / 5 pins	Pre-cabled for serial link directly between the sensors	XZCR1111064D03	XZCR1111064D3	XZCR1111064D5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

Type	Connection 2xM12 - Jumpers for XCSR «Advance»				
	Miniature: XCSR*3M12/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»	
M12 Y Splitter	M12, 8-8-5 pins, Female-Male-Female	Miniature: XCSR*3M12/L01M12
		To connect first and second switches in series
		To connect following switches in series

(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**

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

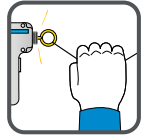
XUSL Type 4		Finger detection (resolution 14 mm)	Hand detection (resolution 30 mm)	Body detection (detection thru 2-3 or 4 beams)
Finger, hand and body detection (5)		Sensing distance 0...3m or 1...6m selectable		
PLc/Cat4 - SIL3		Sensing distance 0...4m or 0...12m selectable		
Height protected (mm)		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)		Sensing distance 0...4m or 0...12m selectable	
PLc/Cat2 - SIL1		Automatic or manual start/restart	
Height protected (mm)		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 Metal 	20 meters cable length	Threaded cable entries - anchoring point Pg13.5 - straight Pg13.5 - right side Pg13.5 - left side	NC+NO	2NC	2NC+NO
	30 meters cable length		XY2CJS15 (1)	XY2CJS17 (1)	XY2CJS19 (1) (2)
	30 meters cable length		XY2CJR15 (1)	XY2CJR17 (1)	XY2CJR19 (1) (2)
	30 meters cable length		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 Metal 	30 meters cable length	Tapped cable entries Pg13.5 ISO M20 1/2" NPT	NC+NO	2NC	2NC+NO
	Reset by booted pushbutton		XY2CH13250	XY2CH13270	XY2CH13290
			XY2CH13250H29	XY2CH13270H29	XY2CH13290H29
			XY2CH13250H7	XY2CH13270H7	XY2CH13290H7

(3) Also available with pilot light

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

(4) Also available with pilot light

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

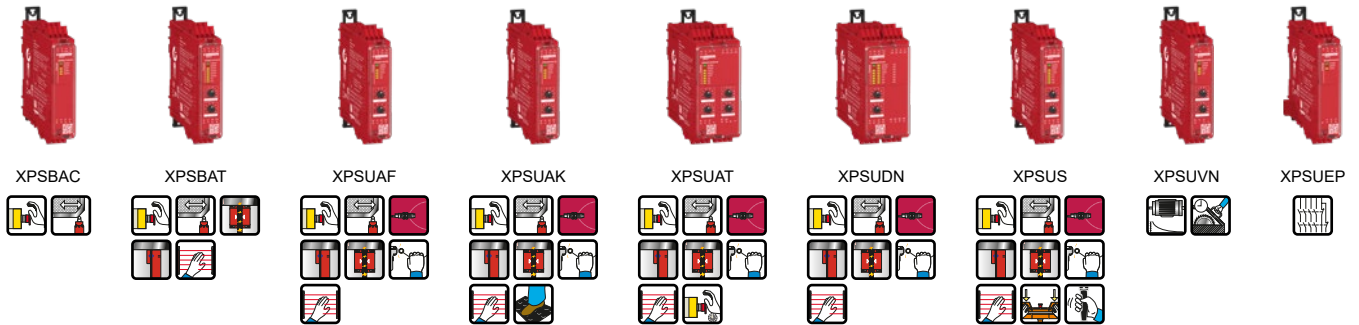
Safety modules for monitoring

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

Terminal block coding bit,
Sold in lot of 30

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