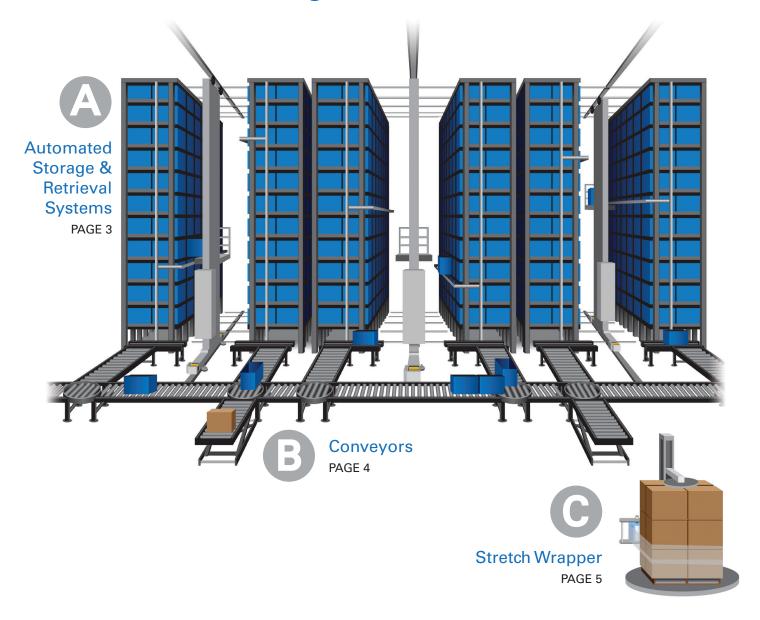




# Material Handling Automated Warehouse



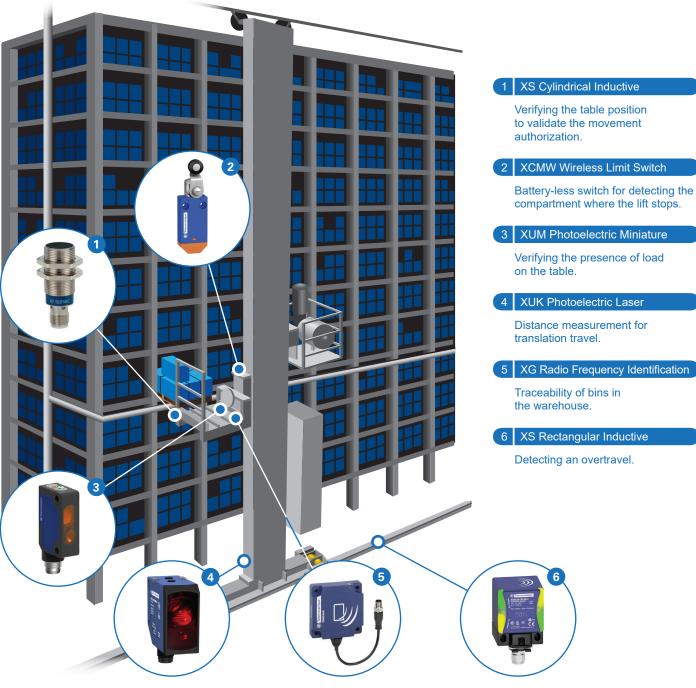
**Telemecanique Sensors** is a world-class global brand offering a comprehensive line of products to support your material handling applications. Whether you are specifying a detection solution for an automated storage and retrieval system, a conveyor system, or a stretch wrapper machine, Telemecanique Sensors has a sensor solution for you!

On the following pages, the sensors used to operate these three primary material handling machine systems are identified by the function they perform. Locate the sensor performing the specific task you are addressing and then find the specification details for that sensor in the product index section beginning on Page 6.

We make the process of choosing a sensor Simply easy!

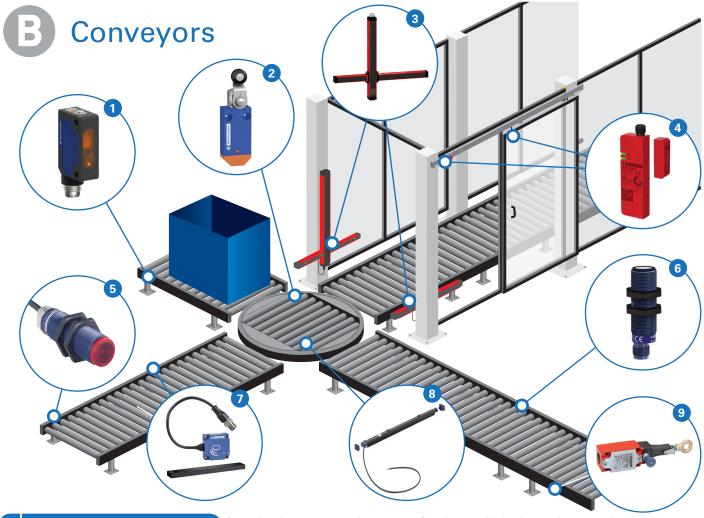


# Automated Storage & Retrieval Systems





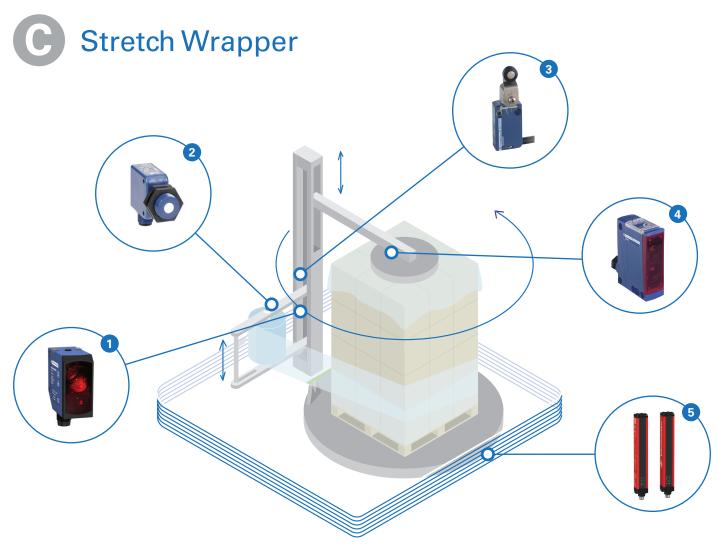




- 1 XUM Miniature Photoelectric Sensor Detecting the passage and presence of packages with background suppression.
- 2 XCMW Wireless Limit Switch Transferring products from conveyor to conveyor without losing the exact direction orientation.
- 3 XUSL4M Safety Light Curtains with Muting Efficient detection of machine operators with uninterrupted automation processes.
- 4 XCSR RFID Safety Sensor Shuts down the machine if the door opens.
- 5 XUB Cylindrical Photoelectric Sensor Detecting the passage and presence of packages using a reflector.
- 6 XX Ultrasonic Sensor Detecting the passage and presence of objects regardless of their color, shape, or orientation.
- 7 XG Radio Frequency Identification Traceability of packages in the warehouse.
- 8 XUY Roller Photoelectric Sensor Integrated, between-the-rollers detection of the passage and presence of any object.
- 9 XY2 Emergency Stop Emergency stop cable switch.







1 XUK Laser Photoelectric Sensor Distance measurement to the pallet.

2 XX Ultrasonic Sensor Detecting end of film reel or film breakage.

3 XCMD Miniature Limit Switch Detecting of the end positions.

4 XUX Photoelectric Sensor Detection of package overhang.

5 XUSL Safety Light Curtains Monitoring access of persons to hazardous zone(s) of the machine.

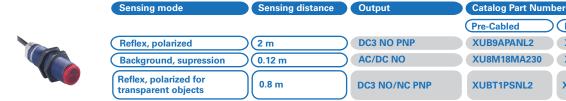






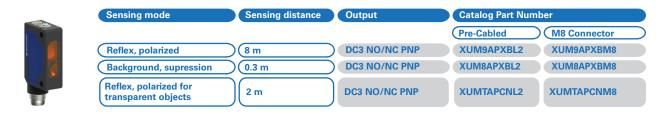
## **XU Photoelectric Sensors**

#### **XUB Cylindrical**



(1) - 1/2" 20 UNF connector

#### **XUM Miniature**



M12 Connector

XUB9APANM12

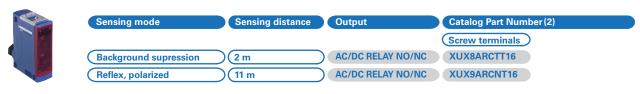
XUBT1PSNM12

XU8M18MA230K(1)

#### **XUK Laser**



#### **XUX General Purpose**



(2) - Contact your sales person for different length

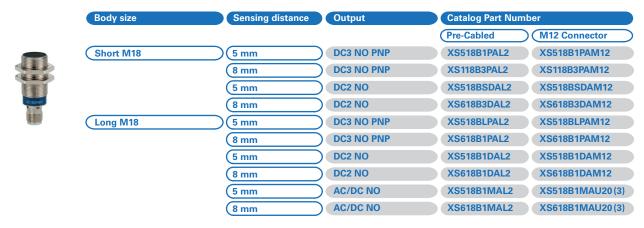
#### **XUY Roller**





## XS Inductive Sensors

### **XS Cylindrical**



#### **XS Rectangular**



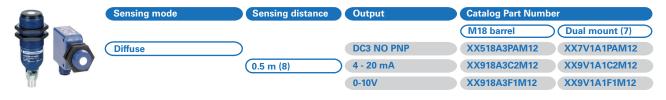


## XX Ultrasonic Sensors

### **XX Cylindrical**



### **XX Cylindrical / Dual mount**



- (3) 1/2» 20 UNF connector
- (4) Body format M30
- (5) 18mm barrel, plastic (P1), Nickel brass (B1) stainless steel (S1) versions available
- (6) Configurable with XX Software / remote teach push-button
- (7) Body format  $60 \times 30 \times 18 \text{mm} + \text{M18}$
- (8) Adjustable with remote teach push-button



# **XC Limit Switches**

#### **XCMD & XCMN Miniature**











Body size	Contact	Connection	Catalog Part Nu	mber		
Miniature Metal	NO+NC Snap action	1 m cable	XCMD2110L1	XCMD2102L1	XCMD2121L1	XCMD2115L1
		M12 4 Pins	XCMD2110M12	XCMD2102M12	XCMD2121M12	XCMD2115M12
Miniature Plastic	NO+NC Snap action	1 m cable	XCMN2110L1	XCMN2102L1	XCMN2121L1	XCMN2115L1

### **XCKP & XCKD Compact**

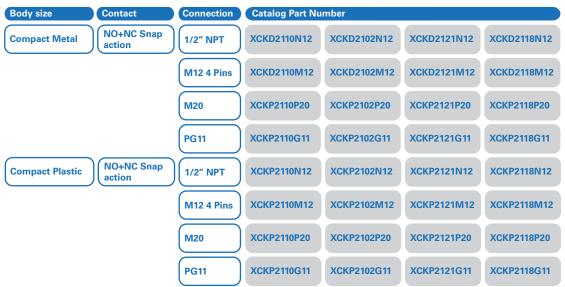












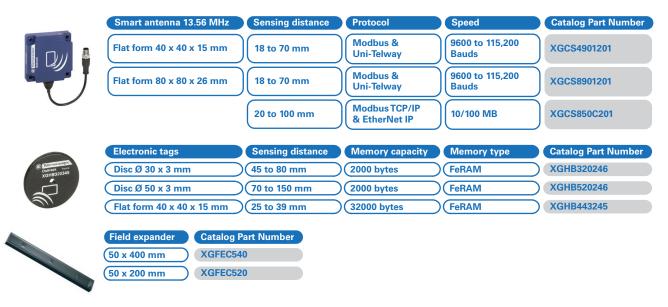
### **XCMW Wireless & Battery-less**



Body size	Description	Catalog Part Number
Miniature format	Metal end plunger	XCMW110
	Metal roller plunger	XCMW102
	Plastic roller lever	XCMW115
	Metal roller lever	XCMW116
	Adjustable length plastic roller lever	XCMW145

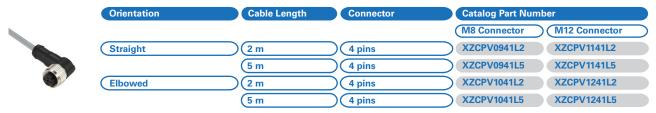


# **XG** Radio Frequency Identification



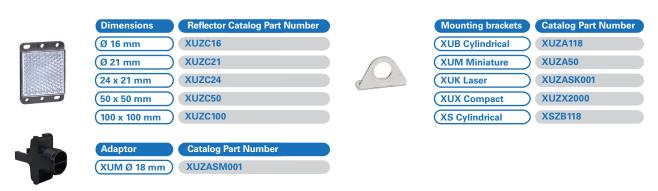


### **XZ** Cables



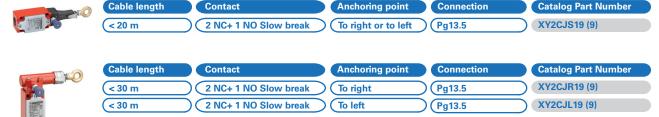


## **Accessories**





# XY2 Emergency Stop



(9) - For ISO M20, just add "H29" to the part number (example: XY2CJS19 becomes XY2CJS19H29). For 1/2" NPT, just add "H7" to the part number (example: XY2CJS19 becomes XY2CJS19H7).



(10)-Also available with pilot light.

For ISO M20, just add "H29" to the part number (example: XY2CH13290 becomes XY2CH13290H29). For 1/2" NPT, just add "H7" to the part number (example: XY2CH13290 becomes XY2CH13290H7).



(11) - Also available with pilot light.

For 1/2" NPT, just add "H7" to the part number (example: XY2CE1A290 becomes XY2CE1A290H7).



(12) - Also available with pilot light.

For 1/2" NPT, just add "H7" to the part number (example: XY2CEDA290 becomes XY2CEDA290H7).



# **XUSL Light Curtains**

	Safety level	Height protected Sensing distance	Catalog Part Number		
			Hand detection Body detection		
	Type 2	910 mm 04 m or 012 n	XUSL2E4BB091N		
	PLd/cat2	1060 mm	XUSL2E30H106N		
		1210 mm	XUSL2E30H121N		
		1360 mm	XUSL2E30H136N		
		1510 mm	XUSL2E30H151N		
		1660 mm	XUSL2E30H166N		
<b>8</b>		1810 mm	XUSL2E30H181N		
• •	Type 4	910 mm 04 m or 012 n	XUSL4E4BB091N		
	PLe/ca4	1060 mm	XUSL4E30H106N		
		1210 mm	XUSL4E30H121N		
		1360 mm	XUSL4E30H136N		
		1510 mm	XUSL4E30H151N		
		1660 mm	XUSL4E30H166N		
		1810 mm	XUSL4E30H181N		
	Type 4	910 mm 010 m or 320 i	M XUSL4E4BB091L		
	PLe/ca4	1060 mm	XUSL4E30H106L		
		1210 mm	XUSL4E30H121L		
		1360 mm	XUSL4E30H136L		
		1510 mm	XUSL4E30H151L		
		1660 mm	XUSL4E30H166L		
		1810 mm	XUSL4E30H181L		
			Integrated muting (13) (16)		
	Type 4	(510 mm	XUSL4MA2BB051N (14)		
,	PLe/ca4		XUSL4MB2BB051N (15)		
		810 mm	XUSL4MA3BB081N (14)		
			XUSL4MB2BB081N (15)		
II		910 mm	XUSL4MA4BB091N (14)		
•			XUSL4MB4BB091N (15)		

- (13) Possible association with pre-built/pre-adjusted muting arms XUSZAS\* (single beam muting sensors) and XUSZAM\* (multi-beam muting sensors).
- (14) Hardware and software configuration (with SoMute free software), partial muting and integrated muting lamp.
- (15) Hardware configuration only
- (16) For hand detection, some models are available in 30mm and 40mm resolutions, in different protected heights.



# XCSR RFID Safety Sensor



# > Telemecanique Sensors

# Simply easy!

Simplicity



**Proximity** 



**Expertise** 



**Telemecanique Sensors** is a world-class global brand offering a comprehensive line of over 25,000 types of sensors, including limit switches, pressure sensors, photoelectric sensors and proximity sensors. In addition, we provide state-of-the-art RFID systems compatible with most PLC manufacturers.

**Telemecanique Sensors** is focused on 3 core values - Simplicity, Expertise, and Proximity. Our focus on **Simplicity** is reflected in the ease with which our products can be specified, installed, and used. Our focus on **Expertise** is reflected in our 70+ years of securing all the necessary and applicable certifications and our long history of addressing some of the most demanding machine applications in the industry. Our focus on **Proximity** can be seen in the worldwide availability of our products and technical support.

In short, we make sensing technology simple. We have the experience to address the most challenging applications. And we are there to help.

We make detection solutions "Simply easy!"

Discover our complete offer: www.telemecaniquesensors.com or contact your local sales agency

#### **TMSS France SAS**

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