



## Back To Business- Simply Easy and Safer applications

July 2020

Product manager – Rathish KR

Simply easy!™



Telemecanique

Sensors

Telemecanique Sensors offer

>Worldwide

#1

Leader in  
mechanical  
switches

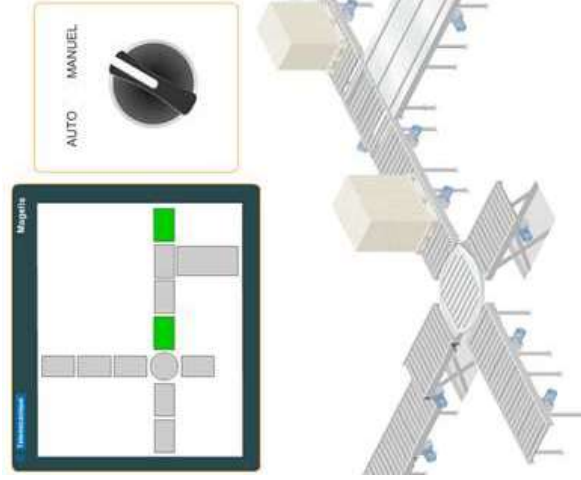


A world-class global brand offering a comprehensive line of products complying with international standards: IEC, UL, CSA, CCC, Gost

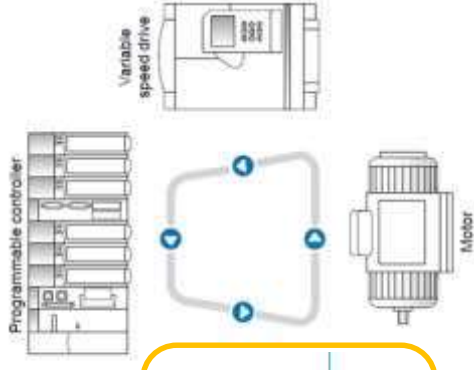
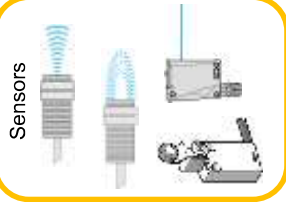
# Sensors in Automation

Sense the environment

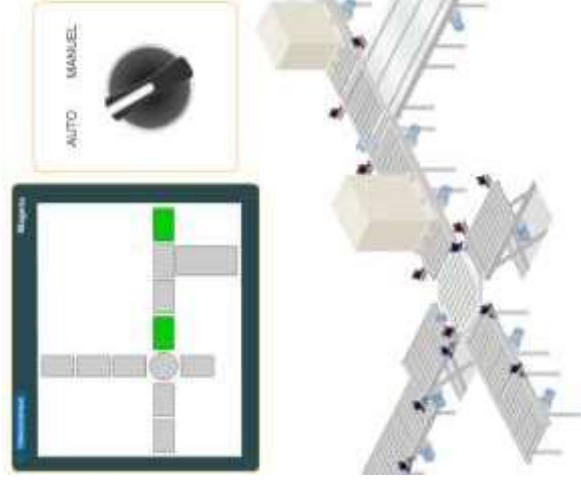
Manual production line



To automate a production line, a feedback is necessary to create a loop.



Automatic production line



# Sensors in Automation

Sensors provide feedback on the **STATE (Position) OF THE MACHINE**



Verify Stabilizer Arm Position



Monitors operating pressure & provides overload protection

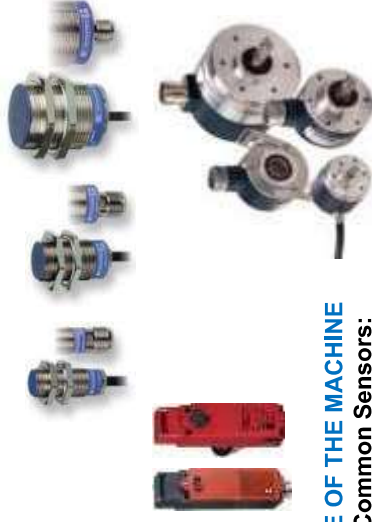


Motor speed detection



Safety gate detection

Motor angle detection



## STATE OF THE MACHINE Most Common Sensors:

- **INDUCTIVE**  
Gripper IN or OUT?  
Platform UP or DOWN?
- **MECHANICAL LIMIT**  
Door OPEN or CLOSED?
- **ULTRASONIC**  
Clear Films, Bulk material, tank level
- **ENCODER**  
Precise Rotational and Linear position
- **PRESSURE & FLOATS**  
Machine health, Monitor pressure & liquid levels, P
- **MACHINE SAFTEY**  
Is it safe to operate?



# Sensors in Automation

Sensors provide feedback on the **STATE OF THE PRODUCT**



## POSITION OF THE PRODUCT

Most Common Sensors:

- **PHOTO ELECTRIC**  
Location, Position & Part Quality
- **ULTRASONIC**  
Location and Position verification
- **VISION**  
Quality Inspections & part Position
- **Radio Frequency Identification (RFID)**  
Tracking, Sorting, Documentation



# Telemecanique Sensors portfolio

## Machine position



Limit switches



Pressure switches



Encoders



Inductive sensors



Safety

## Product detection



Photoelectric sensors



Ultrasonic sensors



Capacitive sensors



RFID sensors



Vision sensors

# Sensors in applications

## Application examples



Roller Conveyors  
Belt Conveyors

Roller Sensors  
Emergency Cable Switches  
Photoelectric  
Ultrasonic  
Vision & RFID



Stretch Wrapping  
Labeling

Label Sensors  
Safety Switches  
Safety Light Curtains  
Ultrasonic Sensors



Bottling  
Filling

Fork Sensors  
Ultrasonic Sensors  
Vision  
Machine Safety Switches



Water  
Irrigation

Pressure Switches &  
Transmitters NSF Cert.  
Mech. Float & Ultrasonic  
level detection





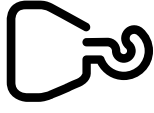
# Sensors in applications

## Application examples



Access Platforms  
Mobile Cranes  
Garbage Trucks  
Aerial Platforms

Limit Switches IEC & NEMA  
Inductive E2 SIL2 Cert.  
Pressure Switch &  
transmitter  
Safety panel/door Interlocks



Overhead Crane  
Tower Crane

Applicative Limit Switches  
Applicative Photoelectric



Escalators  
Elevators  
Construction Lift

Low cost Limit Switches  
Low cost Inductive  
Sensors  
Configurations & Cables



Door Control  
Brake Control  
Pantograph

Limit Switches IEC & NEMA  
Pressure IEC & NEMA  
Special Cables Halogen Free





# Telemecanique Sensors portfolio

A world-class global brand offering a comprehensive line of products complying with international standards: IEC, UL, CSA, CCC, Gost



Limit Switches



NEMA Switches



Inductive,  
capacitive



Safety

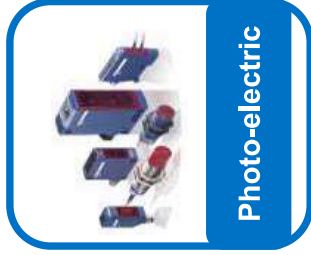


Photo-electric



Pressure



Ultrasonic



RFID



Other  
Cordsets, encoders

# Touchless Button Solutions

## Product selection 1/2

[XUM5ANCNL2](#)\* + [XUZASM001](#) + [XUZASB001](#)



Diffuse mode  
Sensing distance up to 1m  
Potentiometer to set the distance detection  
Pre-cabled sensor

[XUZASM001](#)



[XUM5APBBL2](#)\* + [XUZASM001](#) + [XUZASB001](#)



Diffuse mode  
Sensing distance up to 1m  
Push button to set the distance detection  
Pre-cabled sensor

[XUZASB001](#)



[XUB5APBNL2](#) + [XUZASB001](#)



Diffuse mode  
Sensing distance up to 0,6m  
Push button to set the distance detection  
Pre-cabled sensor

## Touchless Button Solutions



# SANITARY

 Telemecanique  
Sensors

Telemecanique Sensors

4 319 abonnies  
2 5em. • 6

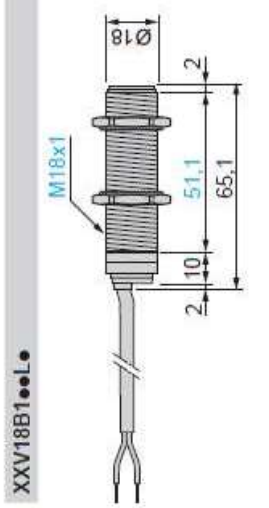
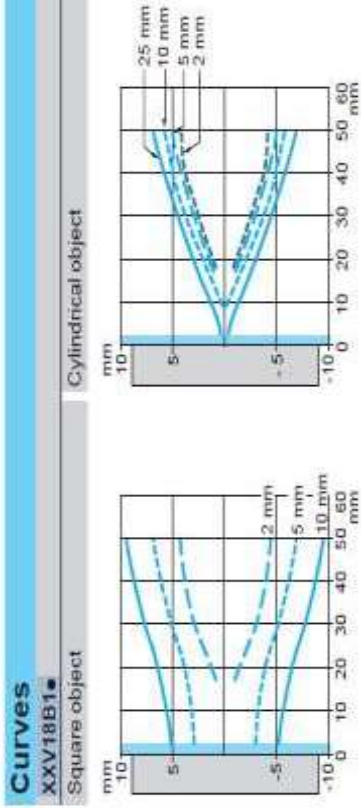
Reduce infection risk transmitted by surface contact in lifts and elevators with  
#TelemecaniqueSensors touchless button solutions. Detection of fingers and  
gloved fingers with XUM photoelectric sensor and stainless steel face for easy  
cleaning #telemecanique  
#simplyeasysafer #agility

# Touchless Button Solutions

Simply easy!



## Product selection 2/2 - Touchless elevator buttons



### XXV Ultrasonic Touchless Button

- Non-contact detection of fingers or gloved fingers
- Sensing range from 2 to 25mm to minimize false triggers
- Patented technology with low dead band meeting international standards for proximity performance.
- Silent operation
- Rated 10-36vdc with NO, 3-wire PNP output
- Stainless steel collar mounts in standard 22.5 mm hole.
- Ideal for retrofits and modernization

### XXV18B1PAL1 + XUZASB001



# Automatic sanitizer dispenser

## Product selection 2/2



Automatic hand sanitizer machine for in a public area or the entrance of workplace



skin and eye friendly mechanical disinfection system to sanitize people or vehicles

### Automatic disinfection machines

Facilitate disinfection in public areas through simple, robust machines to distribute liquid cleansers

#### Your challenge:

Deliver touchfree - 250mm from the machine surround - easily cleaned access to infection control by handwashing or use of hydroalcoholic gel or disinfection systems for people and small vehicles

#### Our solution:

- Photoelectric sensor with integrated time delay of up to 10 seconds to deliver an automatic dosage of soap & water or hydroalcoholic gel
- Simple and fast installation with integrated time delay and sensor
- IP67 protection : high pressure and chemical cleaning (inc alcohol) **Yes**
- Shock and vibration resistant

**Simply Easy ... and safer**



Photoelectric sensor (thin-beam transmitter) with integrated time delay + reflector XU\* + XU2C\*



30



Telemecanique Sensors  
4 319 abonnés  
3 sem. •

Always ready to address the world's changing needs!  
Sanitizer dispensers activated by #Telemecanique #photoelectric XUB sensors instead of physical contact. Simply Easy... and Safer!  
<https://linka.in/gHW3HF2>

#agility #simplyeasy #telemecanique #SimplyEasyAndSafer

### Automatic sanitizer dispenser



# TOUCHFREE



# Automatic sanitizer dispenser

## Product selection

[XUB5BPWL2](#)



Diffuse mode  
Sensing distance up to 0,6m  
Push button to set the distance detection  
Pre-cabled sensor

[XUZCR0402CR](#)



[XUB9APAWM12 + XUZCR0402CR](#)



Reflex mode  
Sensing distance up to 2m  
Push button to set the distance detection  
Pre-cabled sensor

[A9E16070](#)



All products for Touchless solution can be used  
How to create this application described in the next slide

Telemechanique Sensors

4 319 abonnés

3 sem. •

Always ready to address the world's changing needs!

Sanitizer dispensers activated by #Telemechanique #photoelectric XUB sensors instead of physical contact. Simply Easy... and Safer!

<https://linka.in/gHW3HF2>

#agility #simplyeasy #telemechanique #SimplyEasyAndSafer

Automatic sanitizer dispenser



TOUCHFREE

Telemechanique  
Sensors



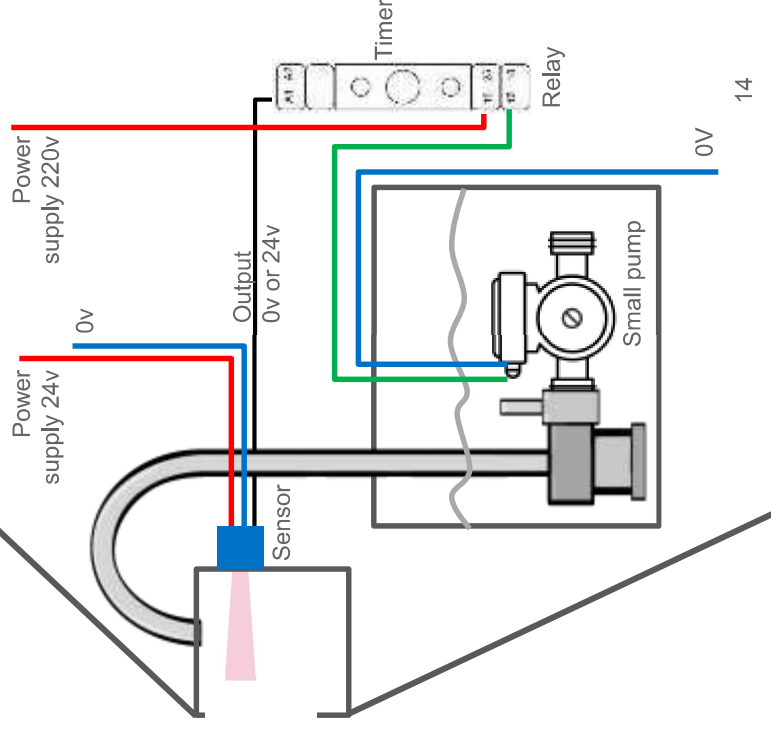
# Automatic sanitizer dispenser

## How to connect the sensor

The sensor is connected to 24VDC power supply. The digital output is connected to a temporized relay (simple relay if XUK used). The 220VAC is connected to the pump through the relay output.

When a hand is detected by the sensor, the output switch to 24Vdc and command the relay. The output 15 and 16 are connected during the time set (see timer on the relay or on the sensor). The alcoholic gel is spread on the hand and stopped after the time set. Only a new detection can restart the pump to get a new dose.

*This is just an example to understand how quickly it can be installed. Please refer to each specific product before to connect them.*



# Facility Occupancy

## Product selection

### [XUM9APCNL2](#) \* + [XUZC50](#)



- Reflex mode
- Sensing distance up to 5m
- Potentiometer to set the distance detection
- Pre-cabled sensor

### [XUM9APSBL2](#) \* + [XUZC50](#)



- Reflex mode
- Sensing distance up to 5m
- Push button to set the distance detection
- Pre-cabled sensor

### [XUM2APCNL2](#)



- Thru-beam mode
- Sensing distance up to 15m
- Potentiometer to set the distance detection
- Pre-cabled sensor

### [XUM2APBBL2](#)



- Tru-beam mode
- Sensing distance up to 15m
- Push button to set the distance detection
- Pre-cabled sensor

*\*Depends on the availability*



[XUZC50](#)

An automated sensing solution from Schneider Electric and Telemecanique sensors to help regulate people flow into your facility, creating a well-managed, safer environment. Automatically counts the number of arrivals and departures & provides a clear signal of when it is safe to enter the location! #simplyeasyandsafer #econstruxure #agility

A smart kit including photoelectric sensors XU range from Telemecanique, Harmony tower light and Zello controller from Schneider Electric





