# Telemecanique Sensors
# Detection components

## Panorama 2024




*Designed for small spaces in packaging machines*



Simply easy!™

Telemecanique Sensors

# Telemecanique Sensors

## Simply easy!™

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



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!"

Visit our website and discover our full offer on
**www.telemecaniquesensors.com**

Telemecanique Sensors presents an expanded XU range of application photo-electric sensors to be embedded in automated lines for the packaging market segment.
With their diverse technical characteristics, high performance and smart management capabilities, they are designed to address a wide scope of specific needs.



### Sensor family per application

> Marking detection
> Very dark and light-absorbing object detection
> Accurate detection
> Colour object detection, from simple colour to very complex colour sorting
> Transparent object detection, with or without reflector

*Laser* *Red light* *White light* *Blue light* *RGB*

*Five light spots*

*Enable smart sensors functions through IO-Link*

IO-Link

### Choose the casing, connection type and size

> Plastic or metal casing
> Pre-cabled, with pigtail or connector
> Miniature, sub-miniature and compact size

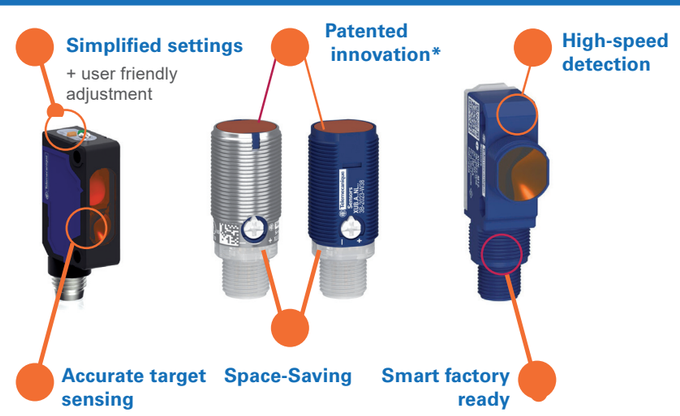



### Smart devices communicate via IO-Link protocol

> Install your new IO-Link sensor easily: automatic reading of the device identification file (IODD) and automatic detection of the sensor output mode
> Automated parameter settings: configure the detection parameters
> Extended diagnostics, with real-time information for optimised usage and maintenance

Telemecanique Sensors

### SPOTLIGHT: Photoelectric sensors XUM XUB XUN




*Small reflector placed on "thru beam" sensors, reaching up to 30m, enabling the user to align the sensors in less than 4 minutes (compared to 15 minutes previously). This reduces installation time by a factor of 3!

# Pressure switches: XM Range

**Choose :** Family 1 / Fluids & pressure 1 > 2 Output type > 3 Electrical connection > 4 Fluid connection > Reference

| XMLP Electronic transmitter | Hydraulic oils, air, fresh water | | | | |
|---|---|---|---|---|---|
| M12 4 pin (male) | -30…+85° C | | Analog output | | |
| | Bar | psi | 4…20 mA | 0…10 V | 0.5…4.5 V |
| | -1 | -14.5 | XMLPM00GD21F | XMLPM00GD71F | XMLPM00GD11F |
| | 1 | 14.5 | XMLP001GD21F | XMLP001GD71F | XMLP001GD11F |
| | 6 | 87 | XMLP006GD21F | XMLP006GD71F | XMLP006GD11F |
| | 10 | 145 | XMLP010BD21F | XMLP010BD71F | XMLP010BD11F |
| | 16 | 232 | XMLP016BD21F | XMLP016BD71F | XMLP016BD11F |
| | 25 | 362 | XMLP025BD21F | XMLP025BD71F | XMLP025BD11F |
| | 40 | 580 | XMLP040BD21F | XMLP040BD71F | XMLP040BD11F |
| | 60 | 870 | XMLP060BD21F | XMLP060BD71F | XMLP060BD11F |
| | 100 | 1450 | XMLP100BD21F | XMLP100BD71F | XMLP100BD11F |
| | 160 | 2320 | XMLP160BD21F | XMLP160BD71F | XMLP160BD11F |
| | 250 | 3625 | XMLP250BD21F | XMLP250BD71F | XMLP250BD11F |
| | 400 | 5800 | XMLP400BD21F | XMLP400BD71F | XMLP400BD11F |
| G 1/4A (male) | 600 | 8700 | XMLP600BD21F | XMLP600BD71F | XMLP600BD11F |

| ZMLP Display and switch | 4-20 mA analog + switching output | | 2 switching outputs |
|---|---|---|---|
| M12 4 pin (male) | NO/NC Programmable | | NO/NC Programmable |
| PNP | Window | Hysteresis | Fixed hysteresis |
| | ZMLPA1P2SW | ZMLPA1P2SH | ZMLPA2P0SH |
| Only usable with 4-20mA analog output XMLP electronic transmitter | | | |
| Quick mounting bracket | Horizontal plan | | Vertical plan or pipe |
| | XMLPZLH01 | | XMLPZLV01 |
| M12 4 pin (female) | | | |

## Cabling XM

| M12 | | Connectors (female) straight | elbowed |
|---|---|---|---|
| (1) | 4 pin | XZCC12FDM40B | XZCC12FCM40B |
| (2) | 4 pin | XZCC12FDP40B | XZCC12FCP40B |
| (1) | 5 pin | XZCC12FDM50B | XZCC12FCM50B |

(1) Steel ring (2) Plastic ring

| M12 | | PUR pre wired connectors (female) (3) straight | elbowed | elbowed PNP LED |
|---|---|---|---|---|
| 4 pin | 2 m | XZCP1141L2 | XZCP1241L2 | XZCP1340L2 |
| | 5 m | XZCP1141L5 | XZCP1241L5 | XZCP1340L5 |
| | 10 m | XZCP1141L10 | XZCP1241L10 | XZCP1340L10 |

(3) For a PVC cable, add the letter V after the P. Example: XZCPppppp become XZCPVppppp

| M12 (female) | | PUR Jumper cables straight | elbowed |
|---|---|---|---|
| M12 (male) | | straight | straight |
| 4 pin | 1 m | XZCR1511041C1 | XZCR1512041C1 |
| | 2 m | XZCR1511041C2 | XZCR1512041C2 |

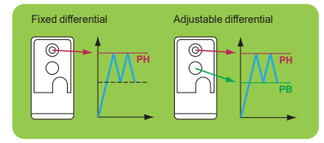
# Pressure switches: XM Range

**Choose :** Family 1 / Fluids & pressure 1 > 2 Output type > 3 Electrical connection > 4 Fluid connection > Reference

| XMLA / XMLB Electromechanical | Hydraulic oils, air, fresh water, sea water / Temp. : up to 70° C | | 1 C/O single pole contact fixed differential | | | 1 C/O single pole contact adjustable differential | | |
|---|---|---|---|---|---|---|---|---|
| Screw terminal | Bar | psi | ISO M20 | Pg13 | DIN connector | ISO M20 | Pg13 | DIN connector |
| | -1 | -14.5 | XMLAM01V2S12 | XMLAM01V2S11 | XMLAM01V2C11 | XMLBM02V2S12 | XMLBM02V2S11 | XMLBM02V2C11 |
| | 2.5 | 36.3 | XMLA002A2S12 | XMLA002A2S11 | XMLA002A2C11 | XMLB002A2S12 | XMLB002A2S11 | XMLB002A2C11 |
| | 4 | 58 | XMLA004A2S12 | XMLA004A2S11 | XMLA004A2C11 | XMLB004A2S12 | XMLB004A2S11 | XMLB004A2C11 |
| | 10 | 145 | XMLA010A2S12 | XMLA010A2S11 | XMLA010A2C11 | XMLB010A2S12 | XMLB010A2S11 | XMLB010A2C11 |
| | 20 | 290 | XMLA020A2S12 | XMLA020A2S11 | XMLA020A2C11 | XMLB020A2S12 | XMLB020A2S11 | XMLB020A2C11 |
| | 35 | 508 | XMLA035A2S12 | XMLA035A2S11 | XMLA035A2C11 | XMLB035A2S12 | XMLB035A2S11 | XMLB035A2C11 |
| | Hydraulic oils / Temp. : up to 160° C | | | | | | | |
| | 1 | 14.5 | XMLA001R2S12 | XMLA001R2S11 | XMLA001R2C11 | XMLB001R2S12 | XMLB001R2S11 | XMLB001R2C11 |
| | 70 | 1015 | XMLA070D2S12 | XMLA070D2S11 | XMLA070D2C11 | XMLB070D2S12 | XMLB070D2S11 | XMLB070D2C11 |
| | 160 | 2320 | XMLA160D2S12 | XMLA160D2S11 | XMLA160D2C11 | XMLB160D2S12 | XMLB160D2S11 | XMLB160D2C11 |
| | 300 | 4350 | XMLA300D2S12 | XMLA300D2S11 | XMLA300D2C11 | XMLB300D2S12 | XMLB300D2S11 | XMLB300D2C11 |
| G 1/4 (female | 500 | 7250 | XMLA500D2S12 | XMLA500D2S11 | XMLA500D2C11 | XMLB500D2S12 | XMLB500D2S11 | XMLB500D2C11 |

| XMLR Electronic + Display | Hydraulic oils, air, fresh water, refrigerant fluids | | | | Analog + 2 switching outputs |
|---|---|---|---|---|---|
| | -20… +80° C | | Analog output | | PNP - NO/NC programmable |
| M12 4 pin or 5 pin | Bar | psi | 4…20 mA | 0…10 V | 4…20 mA |
| | -1 | -14.5 | XMLRM01G0T25 | XMLRM01G0T75 | XMLRM01G2P25 |
| | 1 | 14.5 | XMLR001G0T25 | XMLR001G0T75 | |
| | 2.5 | 35.2 | XMLR2D5G0T25 | XMLR2D5G0T75 | |
| | 10 | 145 | XMLR010G0T25 | XMLR010G0T75 | XMLR010G2P25 |
| | 16 | 232 | XMLR016G0T25 | XMLR016G0T75 | XMLR016G2P25 |
| | 25 | 362 | XMLR025G0T25 | XMLR025G0T75 | |
| | 40 | 580 | XMLR040G0T25 | XMLR040G0T75 | XMLR040G2P25 |
| | 100 | 1450 | XMLR100M0T25 | XMLR100M0T75 | |
| | 160 | 2320 | XMLR160M0T25 | XMLR160M0T75 | |
| | 250 | 3625 | XMLR250M0T25 | XMLR250M0T75 | XMLR250M2P25 |
| | 400 | 5800 | XMLR400M0T25 | XMLR400M0T75 | XMLR400M2P25 |
| | 600 | 8700 | XMLR600M0T25 | XMLR600M0T75 | |

| | Hydraulic oils, air, fresh water, refrigerant fluids | | | | |
|---|---|---|---|---|---|
| | -20… +80° C | | Analog + switching output | | 2 switching outputs |
| | | | PNP - NO/NC programmable | | PNP - NO/NC programmable |
| | Bar | psi | 4…20 mA | 0…10 V | |
| | -1 | -14.5 | XMLRM01G1P25 | XMLRM01G1P75 | XMLRM01G2P05 |
| | 1 | 14.5 | XMLR001G1P25 | XMLR001G1P75 | XMLR001G2P05 |
| | 2.5 | 35.2 | XMLR2D5G1P25 | XMLR2D5G1P75 | XMLR2D5G2P05 |
| | 10 | 145 | XMLR010G1P25 | XMLR010G1P75 | XMLR010G2P05 |
| | 16 | 232 | XMLR016G1P25 | XMLR016G1P75 | XMLR016G2P05 |
| | 25 | 362 | XMLR025G1P25 | XMLR025G1P75 | XMLR025G2P05 |
| | 40 | 580 | XMLR040G1P25 | XMLR040G1P75 | XMLR040G2P05 |
| | 100 | 1450 | XMLR100M1P25 | XMLR100M1P75 | XMLR100M2P05 |
| | 160 | 2320 | XMLR160M1P25 | XMLR160M1P75 | XMLR160M2P05 |
| | 250 | 3625 | XMLR250M1P25 | XMLR250M1P75 | XMLR250M2P05 |
| | 400 | 5800 | XMLR400M1P25 | XMLR400M1P75 | XMLR400M2P05 |
| G 1/4A (female) | 600 | 8700 | XMLR600M1P25 | XMLR600MP75 | XMLR600M2P05 |




## Cabling XM

| M12 | | Connectors (female) straight | elbowed |
|---|---|---|---|
| (1) | 4 pin | XZCC12FDM40B | XZCC12FCM40B |
| (2) | 4 pin | XZCC12FDP40B | XZCC12FCP40B |
| (1) | 5 pin | XZCC12FDM50B | XZCC12FCM50B |

(1) Steel ring (2) Plastic ring

| M12 | | PUR pre wired connectors (female) (3) straight | elbowed | elbowed PNP LED |
|---|---|---|---|---|
| 4 pin | 2 m | XZCP1141L2 | XZCP1241L2 | XZCP1340L2 |
| | 5 m | XZCP1141L5 | XZCP1241L5 | XZCP1340L5 |
| | 10 m | XZCP1141L10 | XZCP1241L10 | XZCP1340L10 |

(3) For a PVC cable, add the letter V after the P. Example: XZCPppppp become XZCPVppppp

| M12 (female) | | PUR Jumper cables straight | elbowed |
|---|---|---|---|
| M12 (male) | | straight | straight |
| 4 pin | 1 m | XZCR1511041C1 | XZCR1512041C1 |
| | 2 m | XZCR1511041C2 | XZCR1512041C2 |

# Limit switches: XC Range

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
























| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | (1) | (1) | | | (1) |
| **XCKD** Metal | NO+NC Snap | M16 | XCKD2110P16 | XCKD2102P16 | XCKD2121P16 | XCKD2106P16 | XCKD2118P16 | XCKD2145P16 |
| | | Pg11 | XCKD2110G11 | XCKD2102G11 | XCKD2121G11 | XCKD2106G11 | XCKD2118G11 | XCKD2145G11 |
| | | M12 5P | XCKD2110M12 | XCKD2102M12 | XCKD2121M12 | XCKD2106M12 | XCKD2118M12 | XCKD2145M12 |
| **XCKP** Plastic | NO+NC Snap | M16 | XCKP2110P16 | XCKP2102P16 | XCKP2121P16 | XCKP2106P16 | XCKP2118P16 | XCKP2145P16 |
| | | Pg11 | XCKP2110G11 | XCKP2102G11 | XCKP2121G11 | XCKP2106G11 | XCKP2118G11 | XCKP2145G11 |
| | | M12 4P | XCKP2110M12 | XCKP2102M12 | XCKP2121M12 | XCKP2106M12 | XCKP2118M12 | XCKP2145M12 |
| **XCKT** Plastic | NO+NC Snap | M16 | XCKT2110P16 | XCKT2102P16 | XCKT2121P16 | XCKT2106P16 | XCKT2118P16 | XCKT2145P16 |
| | | Pg11 | XCKT2110G11 | XCKT2102G11 | XCKT2121G11 | XCKT2106G11 | XCKT2118G11 | XCKT2145G11 |

| | | | | | | | | (1) | (2) |
|---|---|---|---|---|---|---|---|---|---|
| **XCMD** Metal | NO+NC Snap | 1 m | XCMD2110L1 | XCMD2102L1 | XCMD2124L1 | XCMD21F0L1 | XCMD21F2L1 | XCMD2115L1 | XCMD2116L1 |
| | NO+NC Slow | 1 m | XCMD2510L1 | XCMD2502L1 | XCMD2524L1 | XCMD25F0L1 | XCMD25F2L1 | XCMD2515L1 | XCMD2516L1 |
| | NO+NC Snap | M12 5P | XCMD2110C12 | XCMD2102C12 | XCMD2124C12 | XCMD21F0C12 | XCMD21F2C12 | XCMD2115C12 | XCMD2116C12 |
| | 1 C/O Snap | M12 4P | XCMD2110M12 | XCMD2102M12 | XCMD2124M12 | XCMD21F0M12 | XCMD21F2M12 | XCMD2115M12 (1) | XCMD2116M12 |

**XCSM** Metal

| | Type of operator | Metal end plunger | Steel roller plunger |
|---|---|---|---|
| Safety contacts (3) | Cable 1m | XCSM3710L1 | XCSM3702L1 |
| 2NC+NO Slow | Cable 2m | XCSM3710L2 | XCSM3702L2 |
| | Cable 5m | XCSM3710L5 | XCSM3702L5 |

| | Type of operator | Metal end plunger | Steel roller plunger |
|---|---|---|---|
| 2NC+2NO Snap | Cable 1m | XCSM4110L1 | XCSM4102L1 |
| | Cable 2m | XCSM4110L2 | XCSM4102L2 |
| | Cable 5m | XCSM4110L5 | XCSM4102L5 |

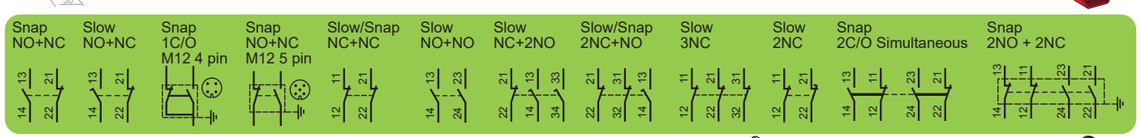
| | | | | | | | | (1) | (2) |
|---|---|---|---|---|---|---|---|---|---|
| **XCKM** Metal | NO+NC Snap | M20 | XCKM110H29 | XCKM102H29 | XCKM121H29 | XCKM115H29 | XCKM106H29 | | |
| | | Pg11 | XCKM110 | XCKM102 | XCKM121 | XCKM115 | XCKM106 | | |
| **XCKL** Metal | NO+NC Snap | CG | XCKL110 | XCKL102 | XCKL121 | XCKL115 | XCKL106 | | |

| | | | | | (1) | (2) | (1) | | |
|---|---|---|---|---|---|---|---|---|---|
| **XCKJ** Metal | NO+NC Snap | M20 | XCKJ161H29 | XCKJ167H29 | XCKJ10511H29 | XCKJ10513H29 | XCKJ10541H29 | XCKJ10559H29 | |
| | | Pg13 | XCKJ161 | XCKJ167 | XCKJ10511 | XCKJ10513 | XCKJ10541 | XCKJ10559 | |
| | | 1/2NPT | XCKJ161H7 | XCKJ167H7 | XCKJ10511H7 | XCKJ10513H7 | XCKJ10541H7 | XCKJ10559H7 | |
| | | M12 5P | XCKJ161D | XCKJ167D | XCKJ10511D | XCKJ10513D | XCKJ10541D | XCKJ10559D | |

(1) Plastic roller (2) Steel roller

| | | NC+2NO Slow | 2NC+NO Slow | 3NC Slow | Accessories | |
|---|---|---|---|---|---|---|
| **XCSA** Metal | M20 | XCSA502 | XCSA702 | XCSA802 | XCSZ01 | XCSZ03 |
| | Pg13 | XCSA501 | XCSA701 | XCSA801 | | |
| | 1/2NPT | XCSA503 | XCSA703 | XCSA803 | | |

| | | NC+N0 Slow | 2NC Slow | 2NO+NC Slow | 2NC+NO Slow | 2NC+N0 Snap | Accessories | |
|---|---|---|---|---|---|---|---|---|
| **XCSPA** Plastic | M16 | XCSPA592 | XCSPA792 | XCSPA892 | XCSPA992 | XCSPA492 | XCSZ11 | XCSZ13 |
| | Pg11 | XCSPA591 | XCSPA791 | XCSPA891 | XCSPA991 | XCSPA491 | | |
| | 1/2NPT | XCSPA593 | XCSPA793 | XCSPA893 | XCSPA993 | XCSPA493 | | |

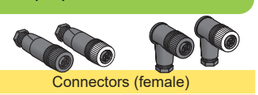



| | |
|---|---|
| M16 | Tapped M16x1.5 for ISO cable gland |
| M20 | Tapped M20x1.5 for ISO cable gland |
| Pg11 | Tapped for a N°11 cable gland |
| Pg13 | Tapped for a N°13 cable gland |
| 1/2NPT | Tapped for a 1/2" NPT |
| PF1/2 | Tapped for a PF1/2" |
| M12 5P | Connector M12, 5 pin |
| M12 4P | Connector M12, 4 pin |
| CG | Tapped with cable gland included |

## Cabling XC



| M12 | | PUR pre wired connectors (female) (1) straight | elbowed | elbowed PNP LED |
|---|---|---|---|---|
| 4 pin | 2 m | XZCP1141L2 | XZCP1241L2 | XZCP1340L2 |
| | 5 m | XZCP1141L5 | XZCP1241L5 | XZCP1340L5 |
| | 10 m | XZCP1141L10 | XZCP1241L10 | XZCP1340L10 |
| 5 pin | 5 m | XZCP1164L5 | XZCP1264L5 | |



| M12 | | Connectors (female) straight | elbowed |
|---|---|---|---|
| (2) 4 pin | | XZCC12FDM40B | XZCC12FCM40B |
| (3) 4 pin | | XZCC12FDP40B | XZCC12FCP40B |
| (2) 5 pin | | XZCC12FDM50B | XZCC12FCM50B |

(2) Steel ring (3) Plastic ring

(1) For a PVC cable, add the letter V after the P. Example: XZCPppppppp become

# Limit switches: XC Range

## XCKP / XCKD / XCKT

Plastic / Metal / Plastic

(1) Plastic roller

ZCE10 · ZCE11 · ZCE02 · ZCE21 (1) · ZCE06 · ZCE08 · ZCE01 · ZCY18 (1) · ZCY45 · ZCY49 · ZCY39

| | NO+NC Snap | NO+2NC Snap | NO+NC Slow | NC+NC Slow | NC+NC Snap | NO+NO Slow |
|---|---|---|---|---|---|---|
| XCKP | ZCP21 | ZCP39 | ZCP25 | ZCP27 | ZCP29 | ZCP28 |
| XCKD | ZCD21 | ZCD39 | ZCD25 | ZCD27 | ZCD29 | ZCD28 |

| | N0+NC Snap |
|---|---|
| M12 4P | ZCP21M12 |
| M12 5P | ZCD21M12 |

| XCKT | NC+NC Snap |
|---|---|
| M16 | ZCT21P16 |
| Pg11 | ZCT21G11 |
| | NO+NC Slow |
| M16 | ZCT25P16 |
| Pg11 | ZCT25G11 |

| Cable entry | M16 | M20 | Pg11 | Pg13.5 | 1/2 NPT | PF1/2 |
|---|---|---|---|---|---|---|
| XCKP | ZCPEP16 | ZCPEP20 | ZCPEG11 | ZCPEG13 | ZCPEN12 | ZCPEF12 |
| XCKD | ZCDEP16 | ZCDEP20 | ZCDEG11 | ZCDEG13 | ZCDEN12 | ZCDEF12 |

## XCMD

Metal

(1) Plastic roller (2) Steel roller

ZCEF2 · ZCEF0 · ZCE24 · ZCE10 · ZCE11 · ZCE02 · ZCE21 (1) · ZCE06 · ZCE08 · ZCE01 · ZCY15 · ZCY16

| | NO+NC Snap | NO+NC Slow | 2NO+2NC Snap | NO+NC Snap | 1C/O Snap |
|---|---|---|---|---|---|
| | ZCMD21 | ZCMD25 | ZCMD4D | M12 5P | M12 4P |
| 1 m | ZCMC21L1 | ZCMD21L1 | ZCMC25L1 | ZCMD25L1 | ZCMC4DL1 | ZCMD41L1 | ZCMD21C12 | ZCMD21M12 |
| 2 m | ZCMC21L2 | ZCMD21L2 | ZCMC25L2 | ZCMD25L2 | ZCMC4DL2 | ZCMD41L2 | | |
| 5 m | ZCMC21L5 | ZCMD21L5 | ZCMC25L5 | ZCMD25L5 | ZCMC4DL5 | ZCMD41L5 | | |

## XCKM / XCKL

Metal

(1) Plastic roller (2) Steel roller

ZCKD15 · ZCKD16 · ZCKD06 · ZCKD08 · ZCKD21 · ZCKD23

ZCKD10 · ZCKD02 · ZCKD05 · ZCKY41 · ZCKY43 · ZCKY59

| XCKM/XCKL | NO+NC Snap | | NO+NC Slow | |
|---|---|---|---|---|
| 3xPg11 | ZCKM1 | | ZCKM5 | |
| 3xM20 | ZCKM1H29 | | ZCKM5H29 | |
| PE | | ZCKL1 | | ZCKL5 |
| 1/2 NPT | | ZCKL1H7 | | ZCKL5H7 |

| XCKS | NO+NC Snap | NO+NC Slow |
|---|---|---|
| Pg13 | ZCKS1 | ZCKS5 |
| M20 | ZCKS1H29 | ZCKS5H29 |

| XCKJ | NO+NC Snap | NO+NC Slow | 2C/O Simult. Snap |
|---|---|---|---|
| Pg13 | ZCKJ1 | ZCKJ5 | ZCKJ2 |
| M20 | ZCKJ1H29 | ZCKJ5H29 | ZCKJ2H29 |
| 1/2 NPT | ZCKJ1H7 | ZCKJ5H7 | ZCKJ2H7 |
| M12 5P | ZCKJ1D | ZCKJ5D | – |

## XCKJ

Metal

(1) Plastic roller (2) Steel roller

ZCKE23 · ZCKE67 · ZCKE61 · ZCKE06 · ZCKE08

ZCKE05

ZCKY11 (1) · ZCKY13 (2) · Ø plastic · U steel · Ø steel

ZCKY41 · ZCKY43 · ZCKY59 · ZCKY51 · ZCKY53

## XCKS

Plastic

(1) Plastic roller
(2) Steel roller

ZCKD01 · ZCKD02

ZCKD05 · ZCKY31 (1) · ZCKY39 (1) · ZCKY41

# Inductives: XS Range

**Choose :** Body size (1 / 1) > (2) Output type > (3) Connection > (4) Output function > Reference

Sensing distance





## Flush mountable – Short



| | | | M8 | | M12 | |
|---|---|---|---|---|---|---|
| | Sensing distance | | 1.5 mm | 2.5 mm | 2 mm | 4 mm |
| DC3 | PNP | cable | XS508B1PAL2 | XS108B3PAL2 | XS512B1PAL2 | XS112B3PAL2 |
| | | connector | XS508B1PAM8 | XS108B3PAM8 | XS512B1PAM12 | XS112B3PAM12 |
| | NPN | cable | XS508B1NAL2 | XS108B3NAL2 | XS512B1NAL2 | XS112B3NAL2 |
| | | connector | XS508B1NAM8 | XS108B3NAM8 | XS512B1NAM12 | XS112B3NAM12 |
| DC2 | | cable | XS508BSCAL2 | XS608B3CAL2 | XS512BSDAL2 | XS612B3DAL2 |
| | | connector | XS508BSCAL01M12 | XS608B3CAL01M12 | XS512BSDAM12 | XS612B3DAM12 |

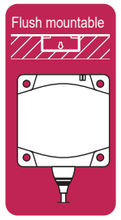
## Long



| | | | | | | |
|---|---|---|---|---|---|---|
| DC3 | PNP | cable | XS508BLPAL2 | XS608B1PAL2 | XS512BLPAL2 | XS612B1PAL2 |
| | | connector | XS508BLPAM12 | XS608B1PAM12 | XS512BLPAM12 | XS612B1PAM12 |
| | NPN | cable | XS508BLNAL2 | XS608B1NAL2 | XS512BLNAL2 | XS612B1NAL2 |
| | | connector | XS508BLNAM12 | XS608B1NAM12 | XS512BLNAM12 | XS612B1NAM12 |
| DC2 | | cable | XS508B1DAL2 | XS608B1DAL2 | XS512B1DAL2 | XS612B1DAL2 |
| | | connector | XS508B1DAM12 | XS608B1DAM12 | XS512B1DAM12 | XS612B1DAM12 |
| AC/DC | | cable | | | XS512B1MAL2 | XS612B1MAL2 |
| | | connector | | | XS512B1MAU20 | XS612B1MAU20 |
| Output function | | NO | A | A | A | A |
| | | NC | B | B | B | B |
| | | NO + NC | | | | (short only) C |

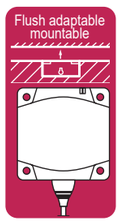


## Flush mountable



| | | | U 8x22x8 mm | U 15x32x8 mm | U 26x26x13 mm | U 40x40x15 mm |
|---|---|---|---|---|---|---|
| | Sensing distance | | 2.5 mm | 5 mm | 10 mm | 15 mm |
| DC3 | PNP | cable | XS7J1A1PAL2 | XS7F1A1PAL2 | XS7E1A1PAL2 | XS7C1A1PAL2 |
| | | connector | XS7J1A1PAL01M8 | XS7F1A1PAL01M8 | XS7E1A1PAM8 | XS7C1A1PAM8 |
| | NPN | cable | XS7J1A1NAL2 | XS7F1A1NAL2 | XS7E1A1NAL2 | XS7C1A1NAL2 |
| | | connector | XS7J1A1NAL01M8 | XS7F1A1NAL01M8 | XS7E1A1NAM8 | XS7C1A1NAM8 |
| DC2 | | cable | XS7J1A1DAL2 | XS7F1A1DAL2 | XS7E1A1DAL2 | XS7C1A1DAL2 |
| | | connector | XS7J1A1DAL01M8 | XS7F1A1DAL01M8 | XS7E1A1DAM8 | XS7C1A1DAM8 |

## Flush adaptable mountable



| | | | U 26x26x13 mm | U 40x40x15 mm |
|---|---|---|---|---|
| | Sensing distance | | 15 mm | 25 mm |
| DC3 | PNP | cable | XS8E1A1PAL2 | XS8C1A1PAL2 |
| | | connector | XS8E1A1PAM8 | XS8C1A1PAM8 |
| | NPN | cable | XS8E1A1NAL2 | XS8C1A1NAL2 |
| | | connector | XS8E1A1NAM8 | XS8C1A1NAM8 |
| AC/DC | | cable | XS8E1A1MAL2 | XS8C1A1MAL2 |
| | | connector | XS8E1A1MAL01U20 | XS8C1A1MAL01U20 |
| Output function | | NO | A | A | A | A |
| | | NC | B | B | B | B |

**XSpppppppM8**: Connector M8 3 pin

**XSpppppppM12**: Connector M12 4 pin

**XSpppppppU20**: Connector 1/2" 3 pin

## Cabling XS



| M8 | | PUR pre wired connectors (female) (1) straight | elbowed |
|---|---|---|---|
| 3 pin | 2 m | XZCP0566L2 | XZCP0666L2 |
| | 5 m | XZCP0566L5 | XZCP0666L5 |
| | 10 m | XZCP0566L10 | XZCP0666L10 |
| 1/2" | | | |
| 3 pin | 5 m | XZCP1865L5 | XZCP1965L5 |

(1) For a PVC cable, add the letter V after the P. Example: XZCPpppppp become XZCPVpppppp

# Inductives: XS Range





## Flush mountable – Short



| | | | M18 | | M30 | |
|---|---|---|---|---|---|---|
| | Sensing distance | | 5 mm | 8 mm | 10 mm | 15 mm |
| DC3 | PNP | cable | XS518B1PAL2 | XS118B3PAL2 | XS530B1PAL2 | XS130B3PAL2 |
| | | connector | XS518B1PAM12 | XS118B3PAM12 | XS530B1PAM12 | XS130B3PAM12 |
| | NPN | cable | XS518B1NAL2 | XS118B3NAL2 | XS530B1NAL2 | XS130B3NAL2 |
| | | connector | XS518B1NAM12 | XS118B3NAM12 | XS530B1NAM12 | XS130B3NAM12 |
| DC2 | | cable | XS518BSDAL2 | XS618B3DAL2 | XS530BSDAL2 | XS630B3DAL2 |
| | | connector | XS518BSDAM12 | XS618B3DAM12 | XS530BSDAM12 | XS630B3DAM12 |

## Long



| | | | | | | |
|---|---|---|---|---|---|---|
| DC3 | PNP | cable | XS518BLPAL2 | XS618B1PAL2 | XS530BLPAL2 | XS630B1PAL2 |
| | | connector | XS518BLPAM12 | XS618B1PAM12 | XS530BLPAM12 | XS630B1PAM12 |
| | NPN | cable | XS518BLNAL2 | XS618B1NAL2 | XS530BLNAL2 | XS630B1NAL2 |
| | | connector | XS518BLNAM12 | XS618B1NAM12 | XS530BLNAM12 | XS630B1NAM12 |
| DC2 | | cable | XS518B1DAL2 | XS618B1DAL2 | XS530B1DAL2 | XS630B1DAL2 |
| | | connector | XS518B1DAM12 | XS618B1DAM12 | XS530B1DAM12 | XS630B1DAM12 |
| AC/DC | | cable | XS518B1MAL2 | XS618B1MAL2 | XS530B1MAL2 | XS630B1MAL2 |
| | | connector | XS518B1MAU20 | XS618B1MAU20 | XS530B1MAU20 | XS630B1MAU20 |
| Output function | | NO | A | A | A | A |
| | | NC | B | B | B | B |
| | | NO + NC | | (short only) C | | (short only) C |

**Accessories**



| | |
|---|---|
| M8 | XSZB108 |
| M12 | XSZB112 |
| M18 | XSZB118 |
| M30 | XSZB130 |



Screw terminal M 20

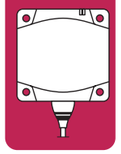
Connector M 12, 4 pin



Flush mountable

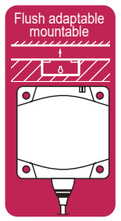
Non flush mountable

## Flush mountable



| | | | U 80x80x26 mm |
|---|---|---|---|
| | Sensing distance | | 40 mm |
| DC3 | PNP | cable | XS7D1A1PAL2 |
| | | connector | XS7D1A1PAM12 |
| | NPN | cable | XS7D1A1NAL2 |
| | | connector | XS7D1A1NAM12 |
| DC2 | | cable | XS7D1A1DAL2 |
| | | connector | XS7D1A1DAM12 |

## Flush adaptable mountable



| | | | U 80x80x26 mm |
|---|---|---|---|
| | Sensing distance | | 60 mm |
| DC3 | PNP | cable | XS8D1A1PAL2 |
| | | connector | XS8D1A1PAM12 |
| | NPN | cable | XS8D1A1NAL2 |
| | | connector | XS8D1A1NAM12 |
| AC/DC | | cable | XS8D1A1MAL2 |
| | | connector | XS8D1A1MAU20 |
| Output function | | NO | A |
| | | NC | B |

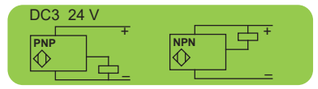
**Cubic**





| U 40x40x117 mm | | | 20 mm | 40 mm |
|---|---|---|---|---|
| DC4 | PNP | NO+NC | XS8C2A1PCM12 | XS8C2A4PCM12 |
| | NPN | NO+NC | XS8C2A1NCM12 | XS8C2A4NCM12 |
| DC2 | | NO | XS8C2A1DAM12 | XS8C2A4DAM12 |
| AC/DC | | NO | XS8C2A1MAU20 | XS8C2A4MAU20 |
| DC4 | PNP | NO+NC | XS8C4A1PCP20 | XS8C4A4PCP20 |
| | NPN | NO+NC | XS8C4A1NCP20 | XS8C4A4NCP20 |
| DC2 | | NO or NC | XS8C4A1DFP20 | XS8C4A4DFP20 |
| AC/DC | | NO or NC | XS8C4A1MFP20 | XS8C4A4MFP20 |
| Select the type of connection | | M20 | P20 | P20 |
| | | PG13 | G13 | G13 |
| | | 1/2" NPT | N12 | N12 |

DC3 24 V




DC4 24 V

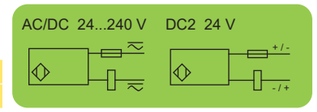



**Accessories**



| | | |
|---|---|---|
| For 26x26 | XSZBE00 | XSZBE90 |
| For 40x40 | XSZBC00 | XSZBC90 |

AC/DC 24...240 V DC2 24 V




# Rotation monitoring: XSAV Range

**Choose :** (1) Speed > (2) Output Type > Reference



| | | | | Sensing distance | Low Speed 10 mm | High Speed 10 mm |
|---|---|---|---|---|---|---|
| M30 | Flush | cable | Output type | DC3-PNP | XSAV11373 | XSAV12373 |
| | | | | AC/DC | XSAV11801 | XSAV12801 |



## Cabling XS

| M12 | | PUR pre wired connectors (female) (1) straight | elbowed | elbowed PNP LED |
|---|---|---|---|---|
| 4 pin | 2 m | XZCP1141L2 | XZCP1241L2 | XZCP1340L2 |
| | 5 m | XZCP1141L5 | XZCP1241L5 | XZCP1340L5 |
| | 10 m | XZCP1141L10 | XZCP1241L10 | XZCP1340L10 |

(1) For a PVC cable, add the letter V after the P. Example: XZCPpppppp become



| M12 | | Connectors (female) straight | elbowed |
|---|---|---|---|
| 4 pin | (2) | XZCC12FDM40B | XZCC12FCM40B |
| 4 pin | (3) | XZCC12FDP40B | XZCC12FCP40B |

(2) Steel ring (3) Plastic ring

# Photo-electrics: XU Range

**XU miniature,cylindrical and hybrid* model**

Body size & system

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

Sensing distance | Output wires: DC4 | Output function: NPN or PNP | Connection: Cable or connector






| Sensing distance | | | | M18 metal | M18 plastic | Hybrid | Miniature | |
|---|---|---|---|---|---|---|---|---|
| **Diffuse** | 1 m | DC4 | PNP | cable | XUB5BPXNL2 | XUB5APXNL2 | XUN5APXNL2 | 1.9 m | XUM5APXBL2 |
| | | | | connector 4P* | XUB5BPXNM12 | XUB5APXNM12 | XUN5APXNM12 | | XUM5APXBM8 |
| | | | NPN | cable | XUB5BNXNL2 | XUB5ANXNL2 | XUN5ANXNL2 | | XUM5ANXBL2 |
| | | | | connector 4P | XUB5BNXNM12 | XUB5ANXNM12 | XUN5ANXNM12 | | XUM5ANXBM8 |
| | | | | lo-Link | XUB5BPYNM12 | XUB5APYNM12 | | | |
| | | DC4 | PNP | cable | | | | 1.1 m | XUM6APXBL2 |
| | | | | connector 4P | | | | | XUM6APXBM8 |
| | | | NPN | cable | | | | | XUM6ANXBL2 |
| | | | | connector 4P | | | | | XUM6ANXBM8 |
| | 0.5 m | DC4 | PNP | cable | XUB6BPXNL2 | XUB6APXNL2 | XUN6APXNL2 | 0.25 m | XUM4APXBL2 |
| | | | | connector 4P | XUB6BPXNM12 | XUB6APXNM12 | XUN6APXNM12 | | XUM4APXBM8 |
| | | | NPN | cable | XUB6BNXNL2 | XUB6ANXNL2 | XUN6ANXNL2 | | XUM4ANXBL2 |
| | | | | connector 4P | XUB6BNXNM12 | XUB6ANXNM12 | XUN6ANXNM12 | | XUM4ANXBM8 |
| | | | | lo-Link | XUB6BPYNM12 | XUB6APYNM12 | | | |
| **Background Suppression** | 0.3 m | DC4 | PNP | cable | XUB8BPXNL2* | XUB8APXNL2* | XUN8APXNL2* | 0.3 m | XUM8APXBL2 |
| | | | | connector 4P | XUB8BPXNM12* | XUB8APXNM12* | XUN8APXNM12* | | XUM8APXBM8 |
| | | | NPN | cable | XUB8BNXNL2* | XUB8ANXNL2* | XUN8ANXNL2* | | XUM8ANXBL2 |
| | | | | connector 4P | XUB8BNXNM12* | XUB8ANXNM12* | XUN8ANXNM12* | | XUM8ANXBM8 |
| | | | | lo-Link | XUB8BPYNM12* | XUB8APYNM12* | | | |
| **Polarized Reflex** | 7 m | DC4 | PNP | cable | XUB9BPXNL2 | XUB9APXNL2 | XUN9APXNL2 | 8 m | XUM9APXBL2 |
| | | | | connector 4P | XUB9BPXNM12 | XUB9APXNM12 | XUN9APXNM12 | | XUM9APXBM8 |
| | | | NPN | cable | XUB9BNXNL2 | XUB9ANXNL2 | XUN9ANXNL2 | | XUM9ANXBL2 |
| | | | | connector 4P | XUB9BNXNM12 | XUB9ANXNM12 | XUN9ANXNM12 | | XUM9ANXBM8 |
| | | | | lo-Link | XUB9BPYNM12 | XUB9APYNM12 | | | |
| | Accessory: Reflector | | | XUZC50 | XUZC50 | XUZC50 | | | XUZC50 |
| **Thru-beam receiver** | 30 m | DC4 | PNP | cable | XUB2BPXNL2R | XUB2APXNL2R | XUN2APXNL2R | 30 m | XUM2APXBL2R |
| | | | | connector 4P | XUB2BPXNM12R | XUB2APXNM12R | XUN2APXNM12R | | XUM2APXBM8R |
| | | | NPN | cable | XUB2BNXNL2R | XUB2ANXNL2R | XUN2ANXNL2R | | XUM2ANXBL2R |
| | | | | connector 4P | XUB2BNXNM12R | XUB2ANXNM12R | XUN2ANXNM12R | | XUM2ANXBM8R |
| | | | | lo-Link | XUB2BPYNM12R | XUB2APYNM12R | | | |
| | | Transmitter | | cable | XUB2BKXNL2T | XUB2BKXNL2T | XUN2AKXNL2T | | XUM2AKXNL2T |
| | | | | connector 4P | XUB2BKXNM12T | XUB2BKXNM12T | XUN2AKXNM12T | | XUM2AKXNM12T |
| **Thru-beam** | 30 m | DC4 | PNP | cable | XUB2BPXNL2 | XUB2APXNL2 | XUN2APXNL2 | 30 m | XUM2APXBL2 |
| | | | | connector 4P | XUB2BPXNM12 | XUB2APXNM12 | XUN2APXNM12 | | XUM2APXBM8 |
| | | | NPN | cable | XUB2BNXNL2 | XUB2ANXNL2 | XUN2ANXNL2 | | XUM2ANXBL2 |
| | | | | connector 4P | XUB2BNXNM12 | XUB2ANXNM12 | XUN2ANXNM12 | | XUM2ANXBM8 |
| | | | | lo-Link | XUB2BPYNM12R | XUB2APYNM12R | | | |

(T/R) (R) (T) Background suppression (BGS)

* Connector 4P M12 if the reference ends by 12 connector 4P M8 if the

*Product available in Q4 2024

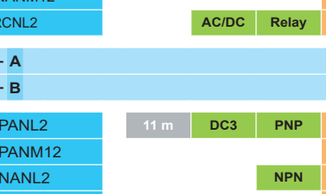
# Photo-electrics: XU Range



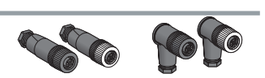

| Sensing distance | | | | Compact 50x50 mm | | | Compact 92x71 mm |
|---|---|---|---|---|---|---|---|
| **Diffuse** | 1 m | DC3 | PNP | cable | XUK5APANL2 | 2.1 m | DC3 | PNP | terminals | XUX5APANT16 |
| | | | | connector 4P | XUK5APANM12 | | | | connector 4P | XUX5APANM12 |
| | | | NPN | cable | XUK5ANANL2 | | | NPN | terminals | XUX5ANANT16 |
| | | | | connector 4P | XUK5ANANM12 | | | | connector 4P | XUX5ANANM12 |
| | | AC/DC | Relay | cable | XUK5ARCNL2 | | AC/DC | Relay | terminals | XUX5ARCNT16 |
| | | Output function | | NO | A | | | | | A |
| | | | | NC | B | | | | | B |
| **Polarized Reflex** | 5 m | DC3 | PNP | cable | XUK9APANL2 | 11 m | DC3 | PNP | terminals | XUX9APANT16 |
| | | | | connector 4P | XUK9APANM12 | | | | connector 4P | XUX9APANM12 |
| | | | NPN | cable | XUK9ANANL2 | | | NPN | terminals | XUX9ANANT16 |
| | | | | connector 4P | XUK9ANANM12 | | | | connector 4P | XUX9ANANM12 |
| | | AC/DC | Relay | cable | XUK9ARCNL2 | | AC/DC | Relay | terminals | XUX9ARCNT16 |
| | Accessory: Reflector | | | XUZC50 | | | | | | XUZC50 |
| **Reflex** | 7 m | DC3 | PNP | cable | XUK1APANL2 | 14 m | DC3 | PNP | terminals | XUX1APANT16 |
| | | | | connector 4P | XUK1APANM12 | | | | connector 4P | XUX1APANM12 |
| | | | NPN | cable | XUK1ANANL2 | | | NPN | terminals | XUX1ANANT16 |
| | | | | connector 4P | XUK1ANANM12 | | | | connector 4P | XUX1ANANM12 |
| | | AC/DC | Relay | cable | XUK1ARCNL2 | | AC/DC | Relay | terminals | XUX1ARCNT16 |
| | Accessory: Reflector | | | XUZC50 | | | | | | XUZC50 |
| **Thru-beam** | 30 m | DC3 | PNP | cable | XUK2APANL2R | 40 m | DC3 | PNP | terminals | XUX2APANT16R |
| | | | | connector 4P | XUK2APANM12R | | | | connector 4P | XUX2APANM12R |
| | | | NPN | cable | XUK2ANANL2R | | | NPN | terminals | XUX2ANANT16R |
| | | | | connector 4P | XUK2ANANM12R | | | | connector 4P | XUX2ANANM12R |
| | Accessory: Transmitter | | | cable | XUK2AKSNL2T | | | | terminals | XUX0AKSAT16T |
| | | | | connector 4P | XUK2AKSNM12T | | | | connector 4P | XUX0AKSAM12T |
| | | AC/DC | Relay | cable | XUK2ARCNL2R | | AC/DC | Relay | terminals | XUX2ARCNT16R |
| | | | | cable | XUK2ARCNL2T | | | | terminals | XUX0ARCTT16T |

(T/R) (T) (R)

| **Multimode** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Background suppression (BGS) / Diffuse (D) / Polarised reflex (P) / Thru-beam (TB) | DC3 PNP/NPN | cable | XUK0AKSAL2 | | DC3 PNP/NPN | terminals | XUX0AKSAT16 |
| | | connector 4P | XUK0AKSAM12 | | | connector 4P | XUX0AKSAM12 |
| | AC/DC Relay | cable | XUK0ARCTL2 | | AC/DC Relay | terminals | XUX0ARCTT16 |
| | Background Suppression: 0.28 m / Polarized reflex: 4 m | | Diffuse: 0.8 m / Thru-beam: 30 m | | Background Suppression: 1.3 m / Polarized reflex: 11 m | | Diffuse: 2 m / Thru-beam: 40 m |
| Accessory: Transmitter | DC | cable | XUK0AKSAL2T | | DC | terminals | XUX0AKSAT16T |
| | | connector 4P | XUK0AKSAM12T | | | connector 4P | XUX0AKSAM12T |
| | AC/DC | cable | XUK0ARCTL2T | | AC/DC | terminals | XUX0ARCTT16T |







| M12 | | PUR pre wired connectors (female) (1) straight | elbowed | elbowed PNP LED |
|---|---|---|---|---|
| 4 pin | 2 m | XZCP1141L2 | XZCP1241L2 | XZCP1340L2 |
| | 5 m | XZCP1141L5 | XZCP1241L5 | XZCP1340L5 |
| | 10 m | XZCP1141L10 | XZCP1241L10 | XZCP1340L10 |

(1) For a PVC cable, add the letter V after the P. Example: XZCPppppp become XZCPVppppp

| M12 | Connectors (female) straight | elbowed |
|---|---|---|
| 4 pin (2) | XZCC12FDM40B | XZCC12FCM40B |
| 4 pin (3) | XZCC12FDP40B | XZCC12FCP40B |

(2) Steel ring (3) Plastic ring

# Photo-electrics applicative

**Choose** Body size & system: 1 (Sensing distance: 1) > 2 (Output wires: DC4) > 3 (Output function: NPN or PNP) > 4 (Connection: Cable or connector) > Reference

| | Light type | Sensing distance | Output type | Connection | Output function | Compact | Miniature | Sub-miniature |
|---|---|---|---|---|---|---|---|---|
| **Color sensors** | | | | | | | | |
|  | White | 60 mm | DC5 | PNP/NPN /IO-LINK | M12 5-Pin | XUKCBSAYM12 | | |
| | | 150 mm | | | | XUKCBLAYM12 | | |
| | RGB LED | 12 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUMRACAYM8 | |
| **Color Mark Reader** | | | | | | | | |
|  | RGB | 12 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUMRAGAYM8 | |
| | | | | | M12 4-Pin, 150 mm | | XUMRAGAYP015 | |
| | White led | 12 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUMRAWAYM8 | |
| | | | | | M12 4-Pin, 150 mm | | XUMRAWAYP015 | |
| | Laser | 250 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUM5ALAYM8 | |
| | | | | | M12 4-Pin, 150 mm | | XUM5ALAYP015 | |
| | | | | | Cable, 2 m, 4-Wire | | XUM5ALAYL2 | |
| **Transparent** | | | | | | | | |
|  | Red light | 2000 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUMTARAYM8 | |
| | | | | | M12 4-Pin, 150 mm | | XUMTARAYP015 | |
| | | | | | Cable, 2 m, 4-Wire | | XUMTARAYL2 | |
| | | | Accessory: Reflector | | | | XUZC50 | XUZC50 |
|  | Blue light | 50 mm | DC4 | PNP | M8 4-Pin, 200 mm | | | XUT7ABPXP02 |
| | | | | | Cable, 2 m, 4-Wire | | | XUT7ABPXL2 |
| | | 80 mm | DC4 | PNP | M8 4-Pin | | XUM7ABPXM8 | |
| | | | | | Cable, 2 m, 4-Wire | | XUM7ABPXL2 | |
|  | | 100 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin, 200 mm | | | XUT8ABAYP02 |
| | | | | | Cable, 2 m, 4-Wire | | | XUT8ABAYL2 |
| | | 200 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUM8ABAYM8 | |
| | | | | | M12 4-Pin, 150 mm | | XUM8ABAYP015 | |
| | | 1200 mm | DC4 | PNP | M12 4-Pin | XUK8ABPXM12 | | |
| **Laser** | | | | | | | | |
|  | Diffuse | 250 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUM5ALAYM8 | |
| | | | | | M12 4-Pin, 150 mm | | XUM5ALAYP015 | |
| | | | | | Cable, 2 m, 4-Wire | | XUM5ALAYL2 | |
|  | BGS | 70 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin, 200 mm | | | XUT8ALAYP02 |
| | | | | | Cable, 2 m, 4-Wire | | | XUT8ALAYL2 |
| | | 150 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUM8ALAYM8 | |
|  | | | | | M12 4-Pin, 200 mm | | XUM8ALAYP015 | |
| | | | | | Cable, 2 m, 4-Wire | | XUM8ALAYL2 | |
| | Reflex | 10000 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUM9ALAYM8 | |
|  | | | | PNP/NPN/IO-LINK | M12 4-Pin, 200 mm | | XUM9ALAYP015 | |
| | | | | PNP | Cable, 2 m, 4-Wire | | XUM9ALAYL2 | |
| | | 3000 mm | DC4 | | M8 4-Pin, 200 mm | | | XUT9ALPXP02 |
| | | | | | Cable, 2 m, 4-Wire | | | XUT9ALPXL2 |
| **BSG Blue Light** | | | Accessory: Reflector High precision | | | | XUZC50HP | XUZC50HP |
|  | Fixed | 50 mm | DC4 | PNP | M8 4-Pin, 200 mm | | | XUT7ABPXP02 |
| | | | | | Cable, 2 m, 4-Wire | | | XUT7ABPXL2 |
| | | 80 mm | DC4 | PNP | M8 4-Pin | | XUM7ABPXM8 | |
| | | | | | Cable, 2 m, 4-Wire | | XUM7ABPXL2 | |
|  | Teach | 100 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin, 200 mm | | | XUT8ABAYP02 |
| | | | | | Cable, 2 m, 4-Wire | | | XUT8ABAYL2 |
| | | 200 mm | DC4 | PNP/NPN/IO-LINK | M8 4-Pin | | XUM8ABAYM8 | |
| | | | | | M12 4-Pin, 150 mm | | XUM8ABAYP015 | |
| | | 1200 mm | DC4 | PNP | M12 4-Pin | XUK8ABPXM12 | | |

# Accessories



**XZ (....) M8**: Connector M8 4 pin

**XZ (....) M12**: Connector M12 4 pin

**Reflectors**



XUZC24 · XUZC80 · XUZC50 · XUZC50HP · XUZC100 · XUZC50CR



**Cabling XU**

| M12 | | PUR pre wired connectors (female) (1) straight | elbowed | elbowed PNP LED |
|---|---|---|---|---|
| 4 pin | 2 m | XZCP1141L2 | XZCP1241L2 | XZCP1340L2 |
| | 5 m | XZCP1141L5 | XZCP1241L5 | XZCP1340L5 |
| | 10 m | XZCP1141L10 | XZCP1241L10 | XZCP1340L10 |

(1) For a PVC cable, add the letter V after the P.
Example: XZCP1141L2 become XZCPV1141L2 for a PVC version



**Cabling XU**

| M8 | | PUR pre wired connectors (female) (1) straight | elbowed |
|---|---|---|---|
| 4 pin | 2 m | XZCP0941L2 | XZCP1041L2 |
| | 5 m | XZCP0941L5 | XZCP1041L5 |
| | 10 m | XZCP0941L10 | XZCP1041L10 |

(1) For a PVC cable, add the letter V after the P.
Example: XZCP0941L2 become XZCPV0941L2



**XUZARM**

| Dovetail clamp | Compatible with |
|---|---|
| Supplied with 2x M3 screws | XUM*A*AYM8 |
| | XUM*A*AYP015 |
| | XUM*A*AYL2 |
| | XUM7ABPX** |



**XUZARS**

| Dovetail clamp | Compatible with |
|---|---|
| Supplied with 2x M3 screws | XUT7ABPX** |
| | XUT8A*AY** |
| | XUT9ABPX** |



**XUZARK**

| Dovetail clamp | Compatible with |
|---|---|
| Supplied with 1x M3 screws | XUKCB*AYM12 |
| | XUK8ABPXM12 |



**XUZASS**

| Mounting bracket | Compatible with |
|---|---|
| Supplied with 2x M3 screws | XUT7ABPX** |
| | XUT8A*AY** |
| | XUT9ABPX** |

Other fixings



Single bracket

| | standard | with ball joint |
|---|---|---|
| XUB | XUZA118 (stainlesss steel) | XUZA218 (plastic) |
| XUM | XUZA50 | – |
| XUK | XUZA51 | – |
| XUX | XUZX2000 | – |

# Ultrasonics: XX Range

Choose : Body size 1 / Sensing distance 1 > 2 Output function > 3 Output type > 4 Connection > Reference



| | | | M12 | | M18 | | M18 plastic (2) | M18 brass (2) | M18 stainless (2) | M18 metal |
|---|---|---|---|---|---|---|---|---|---|---|
| Sensing distance | | | 0.05 m | 0.1 m | 0.15 m | 0.5 m Adjust. (1) | 1 m Adjust. (1) | 1 m Adjust. (1) | 1 m Adjust. (1) | 0.05 m |
| | Connectors/Cables | | M8 4 pin | M8 3 pin | M12 4 pin | M12 4 pin | M12 5 pin | M12 5 pin | M12 5 pin | M12 4 pin |
| NO | DC4 | PNP/NPN | XX512A1KAM8 | | XX518A1KAM12 | | | | | |
| | DC3 | PNP | | XX512A2PAM8 | | XX518A3PAM12 | | | | XXV18B1PAM12 |
| | | NPN | | XX512A2NAM8 | | XX518A3NAM12 | | | | XXV18B1NAM12 |
| NO or NC | DC3 | PNP | | | | | XXS18P1PM12 | XXS18B1PM12 | XXS18S1PM12 | |
| | | | | | | | XXA18P1PM12 | XXA18B1PM12 | XXA18S1PM12 | |
| Analog | | 4…20 mA | | | | XX918A3C2M12 | XXS18P1AM12 | XXS18B1AM12 | XXS18S1AM12 | |
| | | | | | | | XXA18P1AM12 | XXA18B1AM12 | XXA18S1AM12 | |
| | | 0…10 V | | | | XX918A3F1M12 | XXS18P1VM12 | XXS18B1VM12 | XXS18S1VM12 | |
| | | | | | | | XXA18P1VM12 | XXA18B1VM12 | XXA18S1VM12 | |

(1) Adjustable with XXZPB100 (2) Configurable with XXZBOX01 by software S = straight A = angled



| | | | M30 plastic (2) | | | | M30 Brass (2) | | | M30 Stainless (2) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sensing distance | | | 1 m Adjust. (1) | 2 m Adjust. (1) | 4 m Adjust. (1) | 8 m Adjust. (3) | 1 m Adjust. (1) | 2 m Adjust. (1) | 4 m Adjust. (1) | 1 m Adjust. (1) | 2 m Adjust. (1) | 4 m Adjust. (1) |
| | Connectors | | M12 5-pin | M12 5-pin | M12 5-pin | M12 5-pin | M12 5-pin | M12 5-pin | M12 5-pin | M12 5-pin | M12 5-pin | M12 5-pin |
| NO or NC | DC3 | PNP | XXS30P1PM12 | XXS30P2PM12 | XXS30P4PM12 | | XXS30B1PM12 | XXS30B2PM12 | XXS30B4PM12 | XXS30S1PM12 | XXS30S2PM12 | XXS30S4PM12 |
| | | | XXA30P1PM12 | XXA30P2PM12 | | | XXA30B1PM12 | XXA30B2PM12 | | XXA30S1PM12 | XXA30S2PM12 | |
| | DC4 | 2 x PNP | | | | XXS30P8PPM12 | | | | | | |
| | | 2 x NPN | | | | XXS30P8NNM12 | | | | | | |
| Analog | DC3 | 4…20mA | XXS30P1AM12 | XXS30P2AM12 | XXS30P4AM12 | | XXS30B1AM12 | XXS30B2AM12 | XXS30B4AM12 | XXS30S1AM12 | XXS30S2AM12 | XXS30S4AM12 |
| | | | XXA30P1AM12 | XXA30P2AM12 | | | XXA30B1AM12 | XXA30B2AM12 | | XXA30S1AM12 | XXA30S2AM12 | |
| | | 0…10V | XXS30P1VM12 | XXS30P2VM12 | XXS30P4VM12 | | XXS30B1VM12 | XXS30B2VM12 | XXS30B4VM12 | XXS30S1VM12 | XXS30S2VM12 | XXS30S4VM12 |
| | | | XXA30P1VM12 | XXA30P2VM12 | | | XXA30B1VM12 | XXA30B2VM12 | | XXA30S1VM12 | XXA30S2VM12 | |
| Analog + NO or NC | DC4 | 4…20 mA + PNP | | | | XXS30P8APM12 | | | | | | |
| | | 0…10V + PNP | | | | XXS30P8VPM12 | | | | | | |

(1) Adjustable with XXZPB100 (2) Configurable with XXZBOX01 by software (3) Push-button integrated on the product S = straight A = angled

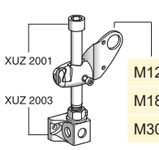


| | | | Flat 7.6x19x33 | Flat 16x30x74 | Flat 60x30x18 + M18 | |
|---|---|---|---|---|---|---|
| Sensing distance | | | 0.1 m | 0.25 m | 0.5 m Adjust. | 0.5 m Adjust. |
| | Connectors | | M12 4 pin | M12 4 pin | M12 4 pin | M12 4 pin |
| NO | DC3 | PNP | XX7F1A2PAL01M12 | XX7K1A2PAM12 | | XX7V1A1PAM12 (1) |
| | | NPN | XX7F1A2NAL01M12 | XX7K1A2NAM12 | | XX7V1A1NAM12 (1) |
| Analog | | 4…20 mA | | | XX9V1A1C2M12 (1) | |
| | | 0…10 V | | | XX9V1A1F1M12 (1) | |

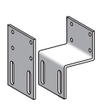





(1) Adjustable with XXZPB100




| | |
|---|---|
| M12 | XUZB2012 |
| M18 | XUZB2003 |
| M30 | XUZB2030 |



| For XX7K | |
|---|---|
| Flat | XXZ3074F |
| Cranked | XXZ3074S |

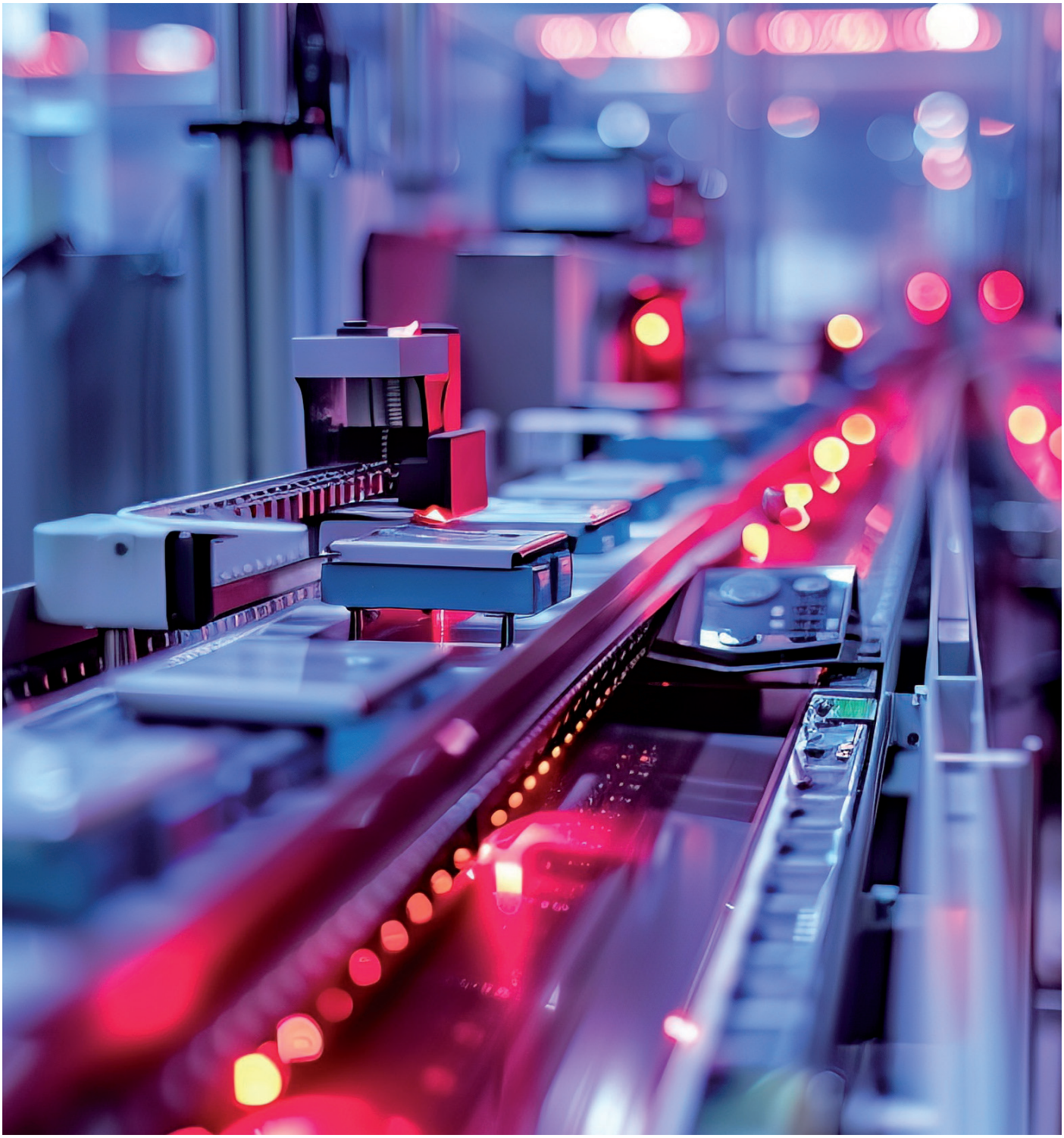


| | |
|---|---|
| M12 | XXZ12 |
| M18 | XUZA118 |
| M30 | XXZ30 |
| XX7F | XXZ1933 |



| | |
|---|---|
| Adjustable | XXZPB100 |

# Notes



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