

OsiSense for your hoisting applications



Simply easy!™



Telemecanique

> Telemecanique Sensors

Simply easy!

Simplicity



Expertise



Proximity



Telemecanique Sensors: a world-class global brand offering a comprehensive line of products with over 25,000 types of sensors, including limit switches, pressure sensors, photoelectric and proximity sensors. In addition, we provide state-of-the-art RFID systems that are compatible with many PLC manufacturers as well as industrial encoders.

Telemecanique Sensors: has all the right agency approvals, such as IEC, NEMA, CE, CCC, UL, CSA, EAC.

Telemecanique Sensors: focused on three 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!".

> Innovation focus

OsiSense™ XUK9T offers dedicated functions for overhead crane: **anticollision and tandem**

Robust detection

- Up to 70 m range thanks to time-of-flight method
- Simple alignment with a reflector is allowed by a bright laser red spot

Improved operator safety

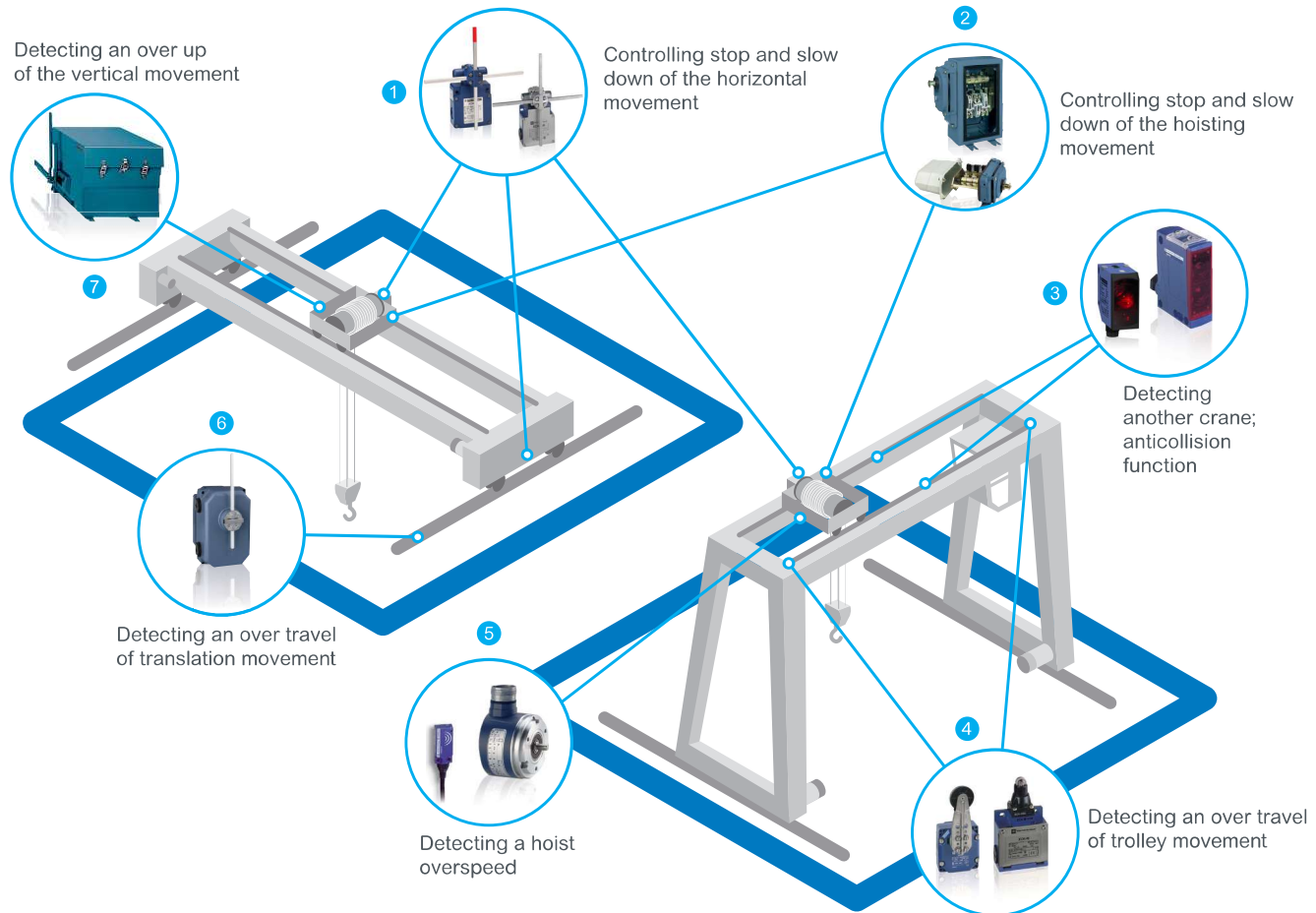
- When several cranes use the same rail, the risk of collisions or dropped load is avoided by the anticollision function
- Monitoring the synchronisation of two cranes to translate heavy or large loads is made possible with the tandem function

Easy installation and teach-in

- Compact size (50mm x 50mm x 23mm)
- Teach-in button available on the device or via an external wire



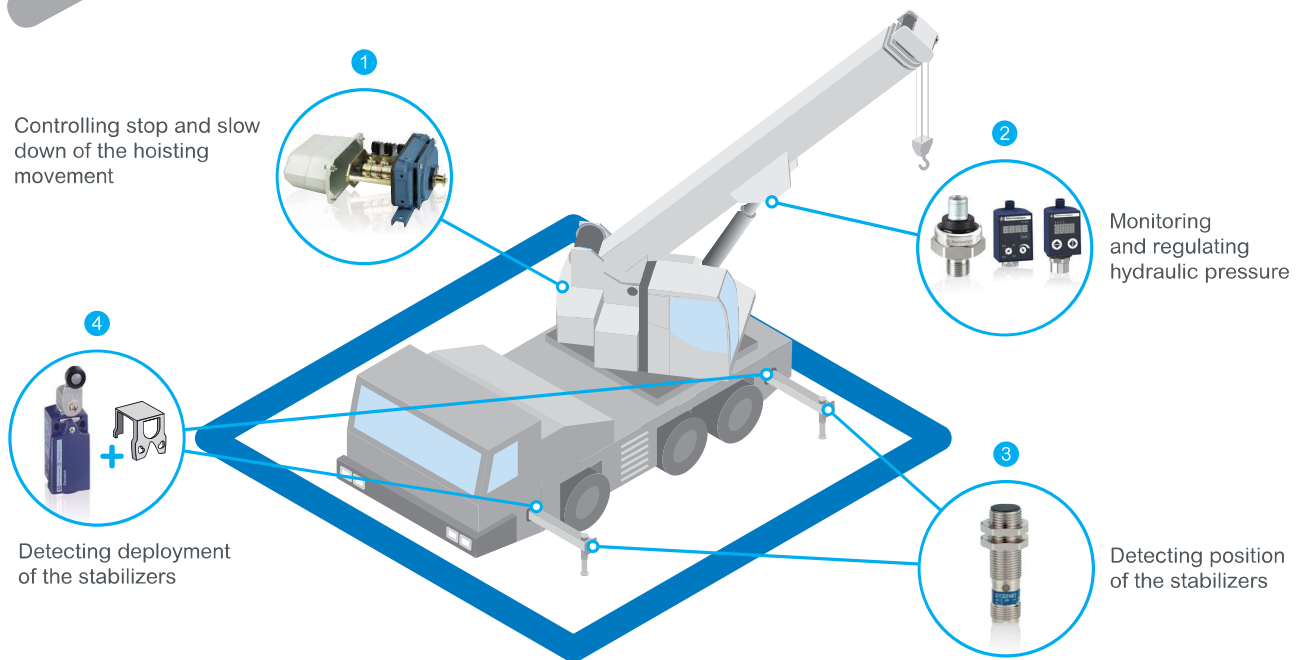
> Overhead and gantry crane



- | | | |
|---|----------------------|--|
| 1 | OsiSense XCKVR/XCKMR | 2 ways/2 speeds by one single sensor, compactness and robustness with positivity |
| 2 | OsiSense XR | Robustness and modularity (up to 28 contacts) |
| 3 | OsiSense XUX/XUK9T | Long-distance detection |
| 4 | OsiSense XCKM/XCR | Robustness with positivity |
| 5 | OsiSense XCC/XS | Ease of installation and adjustment |
| 6 | 7 OsiSense XF | The ultimate hoisting protection |

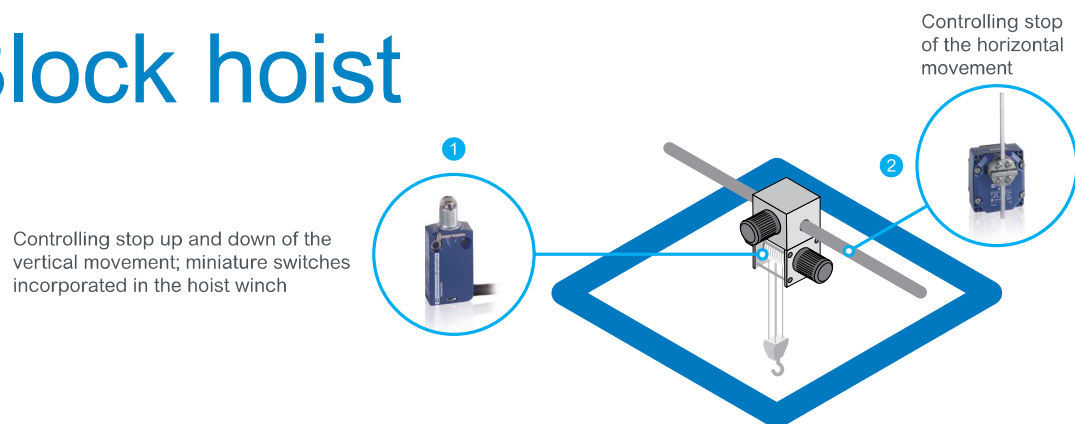


> Mobile crane



- | | |
|---------------------------|--|
| 1 OsiSense XR | Robustness and modularity |
| 2 OsiSense XMLP/ZMLP/XMLR | Compactness and robustness for reliable regulation |
| 3 OsiSense XS | Ease of installation and adjustment distance detection |
| 4 OsiSense XCKD + XCKZ05 | Robustness for increased resistance to impact |

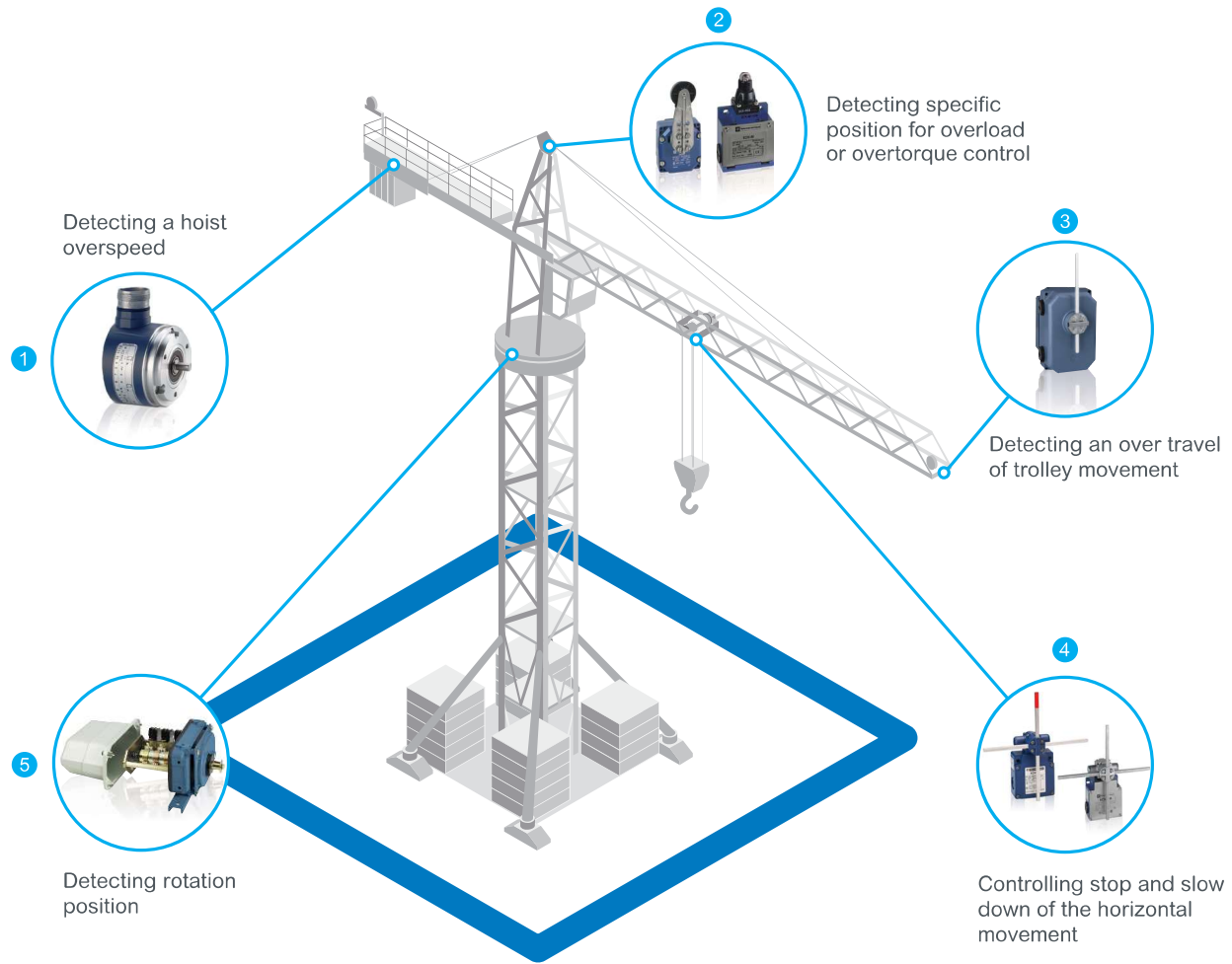
> Block hoist



- | | |
|-----------------|--|
| 1 OsiSense XCMD | Compactness and modularity of the head for easy mechanical integration |
| 2 OsiSense XCR | 2 ways/1 speed, compactness and robustness with positivity |



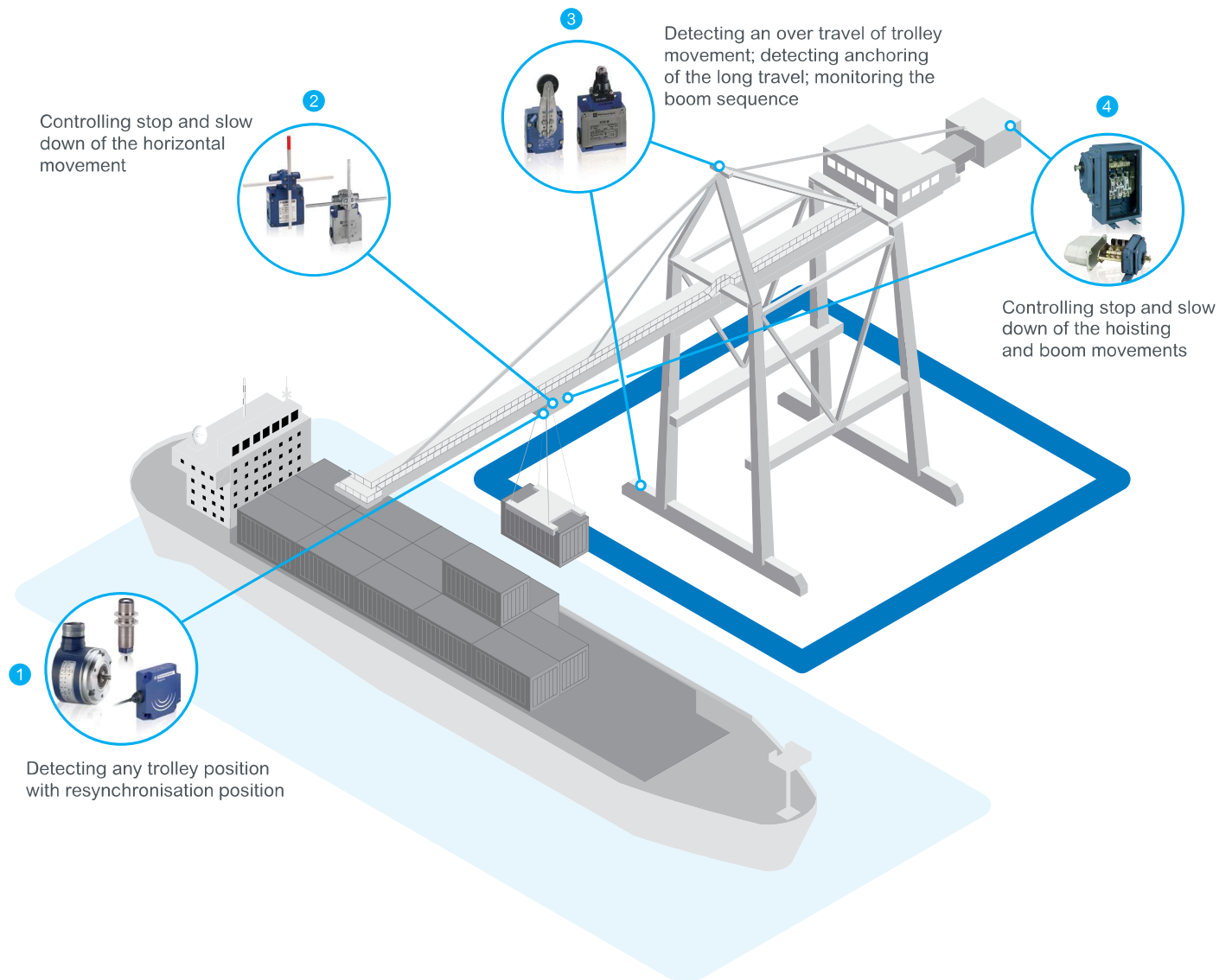
> Tower crane



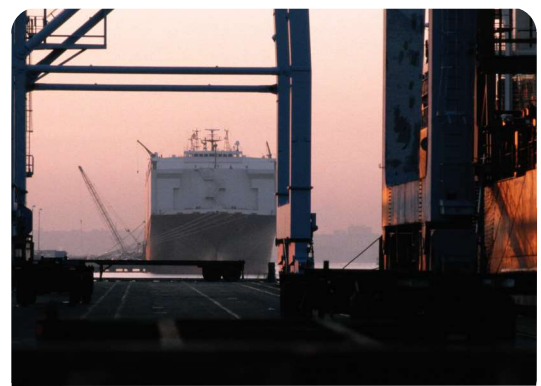
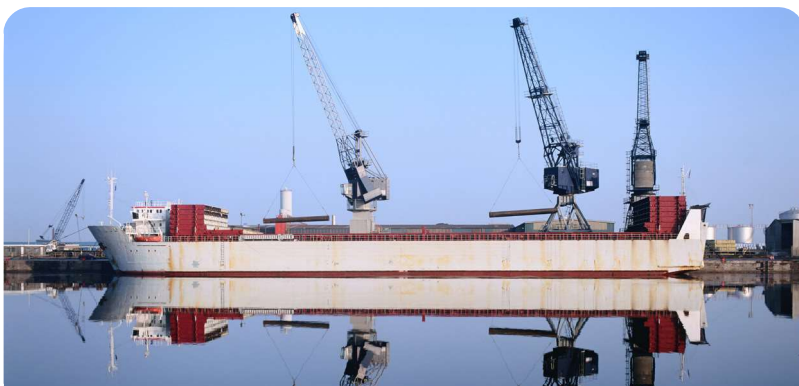
- | | |
|------------------------|--|
| 1 OsiSense XCC | Ease of installation and adjustment |
| 2 OsiSense XCKM/XCR | Robustness with positivity |
| 3 OsiSense XF | The ultimate trolley protection |
| 4 OsiSense XCKVR/XCKMR | 2 ways/2 speeds by one single sensor, compactness and robustness with positivity |
| 5 OsiSense XR | Robustness and modularity |



> Harbour crane



- | | | |
|---|----------------------|--|
| 1 | OsiSense XCC/XS | Ease of installation and adjustment |
| 2 | OsiSense XCKVR/XCKMR | 2 ways/2 speeds by one single sensor, compactness and robustness with positivity |
| 3 | OsiSense XCKM/XCR | Robustness with positivity |
| 4 | OsiSense XR | Robustness and modularity (up to 28 contacts) |






Photoelectric sensors

| | | | | | | | |
|------------------|------------------|--------------|---|---|---|---|---|
| XU | | |  |  |  |  |  |
| Sensing distance | | | 11 m | 30 m | 70 m | Recommended reflector | Recommended cable |
| AC/DC | Relay | Terminals | XUX9ARCTN16 | | | XUZC100 | |
| 24 V | 2 PNP + Analogic | M12 - 5 pins | | XUE1AA2NM12 | | XUZC250 | |
| | | M12 - 8 pins | | | XUK9TAH2MM12 | XUZC250 | XZCP29P12L10 |



Inductive sensors

| | | | | | | | |
|------------------------|------------------|-----------|---|---|---|--|---|
| | | |  |  |  |  |  |
| | | | Ø 12 mm | Ø 18 mm | 15x32x8 mm | 26x26x13 mm | 40x40x15 mm |
| XS | Sensing distance | | 4 mm | 8 mm | 5 mm | 10 mm | 15 mm |
| DC 3 wires NO | PNP | cable | XS112B3PAL2 | XS118B3PAL2 | XS7F1A1PAL2 | XS7E1A1PAL2 | XS7C1A1PAL2 |
| | | connector | XS112B3PAM12 | XS118B3PAM12 | XS7F1A1PAL01M8 | XS7E1A1PAM8 | XS7C1A1PAM8 |
| | NPN | cable | XS112B3NAL2 | XS118B3NAL2 | XS7F1A1NAL2 | XS7E1A1NAL2 | XS7C1A1NAL2 |
| | | connector | XS112B3NAM12 | XS118B3NAM12 | XS7F1A1NAL01M8 | XS7E1A1NAM8 | XS7C1A1NAM8 |
| DC 4 wires NO+NC | PNP | connector | XS112B3PCM12 | XS118B3PCM12 | | | |

Pressure transmitters

| | | | | | | | | |
|---|--|--|---|------|---------------------|---|---|---|
| XM | | | Hydraulic oils, air, fresh water, sea water, gases | | | Switch and display for XMLP | | |
| | | | PNP | | M12 connector* | PNP | | |
| | | | -30 ... +100 °C | | | | | |
| | | | Bars | Psi | 2 switching outputs | Analogue 4 ... 20 mA + 1 switching output | Analogue 4 ... 20 mA | |
|  | | | 100 | 1450 | XMLR100M2P05 | XMLR100M1P25 | XMLP100BD22 | 2 switching outputs |
| | | | 160 | 2320 | XMLR160M2P05 | XMLR160M1P25 | XMLP160BD22 | ZMLPA2P0SH |
| | | | 250 | 3625 | XMLR250M2P05 | XMLR250M1P25 | XMLP250BD22 | Analogue 4 ... 20 mA + 1 switching output |
| | | | 400 | 5800 | XMLR400M2P05 | XMLR400M1P25 | XMLP400BD22 | |
| | | | 600 | 8700 | XMLR600M2P05 | XMLR600M1P25 | XMLP600BD22 | |
| | | | *For EN175301-803-A connector, replace D by C in the reference (example: XMLP250BD22 becomes XMLP250BC22) | | | | | |
| | | | | | |  |  | |

Encoders

| | | | | | | |
|---|---------------------|--|----------------|---------------|----------------|----------------|
| | | | ø 58 mm | | ø 90 mm | |
| XCC | Resolution | | Solid shaft | Through shaft | Solid shaft | Through shaft |
| Incremental | 500 pts | | XCC1510PS05Y | | | |
| | 1024 pts | | XCC1510PS11Y | XCC1514TS11Y | | |
| | 10,000 pts | | | | XCC1912PS00KN | XCC1930TS00KN |
|  | | | | | | |
| Absolute multiturn | 8192 pts/4096 turns | | XCC3510PS84SGN | XCC3514TS84SB | XCC3912PS84SGN | XCC3912TS84SGN |
|  | | | | | | |

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

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