

# XUSL4E light curtain - cabling

- How to replace the obsolete XUSLP by the new XUSL4E SLC by using the old cabling
- Old & new parts use the same M12 5or8-pin connectors and the same conductor number (difference = colour)
- Wires need to be changed on the 24Vdc power supply

Simply easy!<sup>TM</sup>



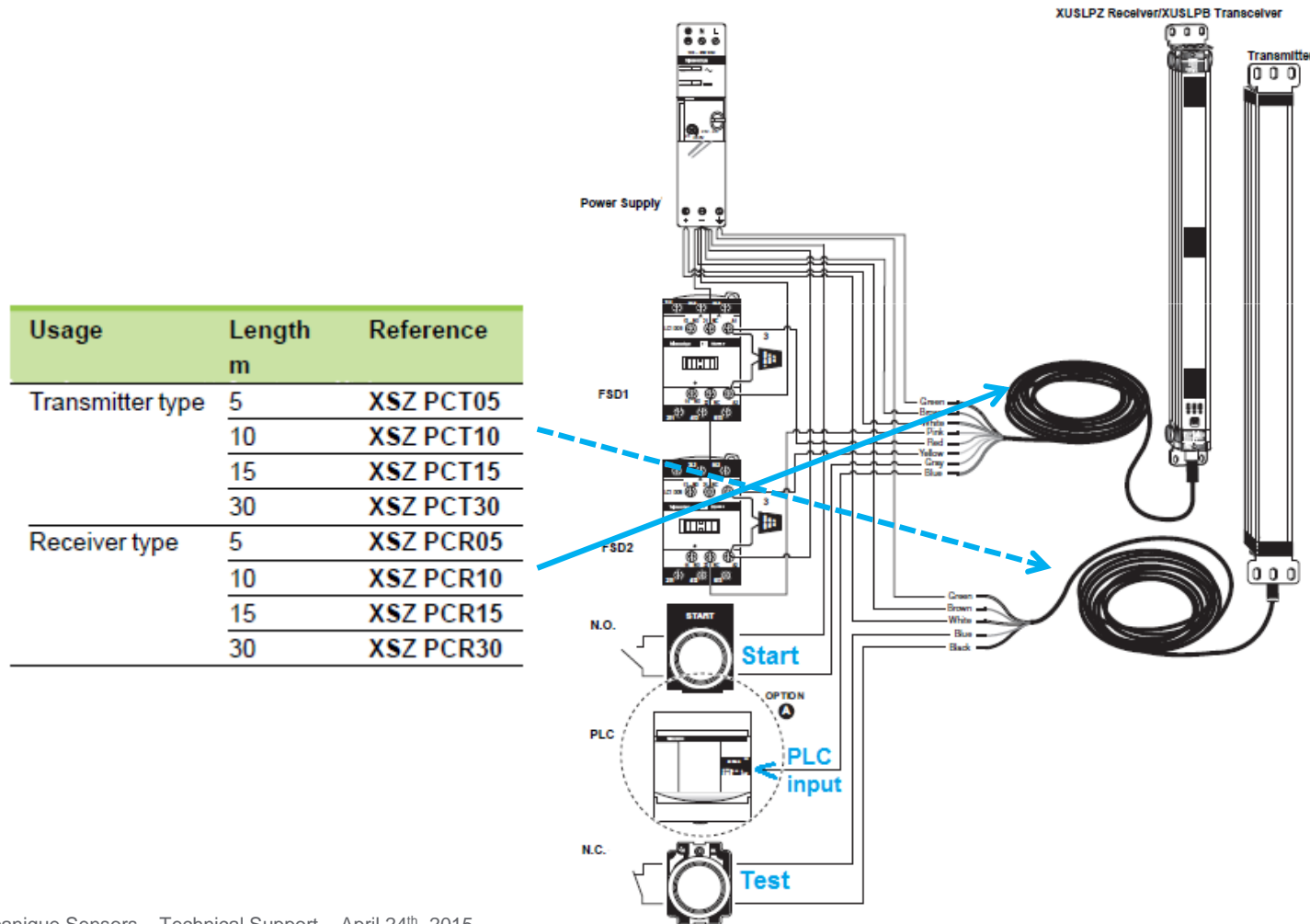
Telemecanique

Sensors

# Obsolete XUSLP type 4 light curtain

- Cabling details in the stand-alone solution

Figure 15: XUSLPZ/XUSLPB with Force-Guided Relays



# Obsolete XUSLP type 4 light curtain

- XSZPCR pre-wired connector pin-out

### Electrical Connections

The XUSLPB system only has a transceiver. It connects the same as the XUSLPZ receiver.

### Receiver

Pre-wired connector of receiver (XUS LPZ) and pre-wired connector of transmitter-receiver (XUS LPB)

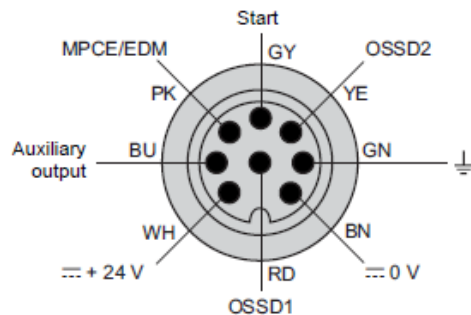
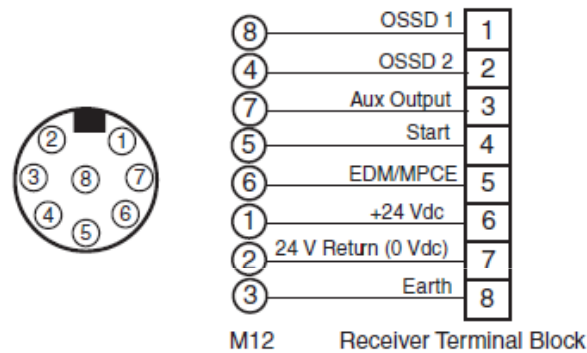


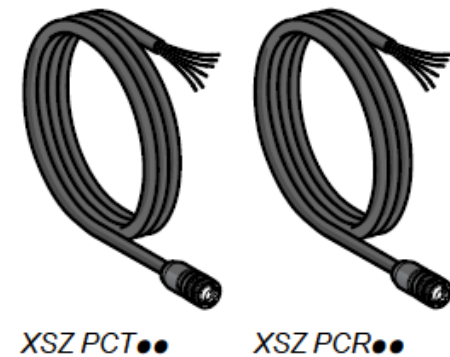
Figure 13: Receiver/Transceiver Connections (M12, 8-Pin)



NOTE: As viewed from the M12 connection on the endcap of the receiver/transceiver.

| Pin-Wire Color | Terminal Block # | Description      |
|----------------|------------------|------------------|
| 1-White        | 6                | +24 Vdc          |
| 2-Brown        | 7                | 0 Vdc            |
| 3-Green        | 8                | Earth ground     |
| 4-Yellow       | 2                | OSSD 2           |
| 5-Gray         | 4                | Start            |
| 6-Pink         | 5                | EDM/MPCE         |
| 7-Blue         | 3                | Auxiliary Output |
| 8-Red          | 1                | OSSD 1           |

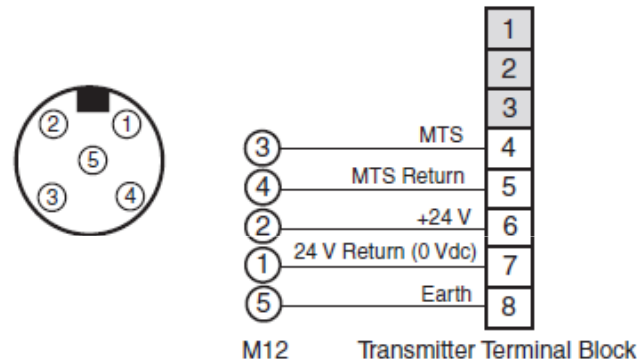
NOTE: OSSD = Output Safety Switching Device



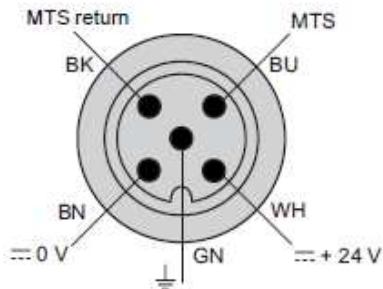
# Obsolete XUSLP type 4 light curtain

- XSZPCT pre-wired connector pin-out

Figure 14: Transmitter Connections (M12, 5-Pin)



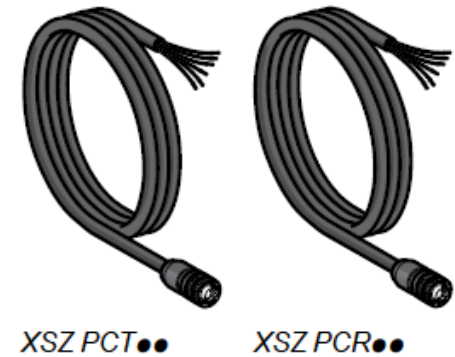
**XUS LPZ/LPB**  
**Transmitter**  
 Pre-wired connector of transmitter (XUS LPZ)



*NOTE: As viewed from the M12 connection on the endcap of the transmitter.*

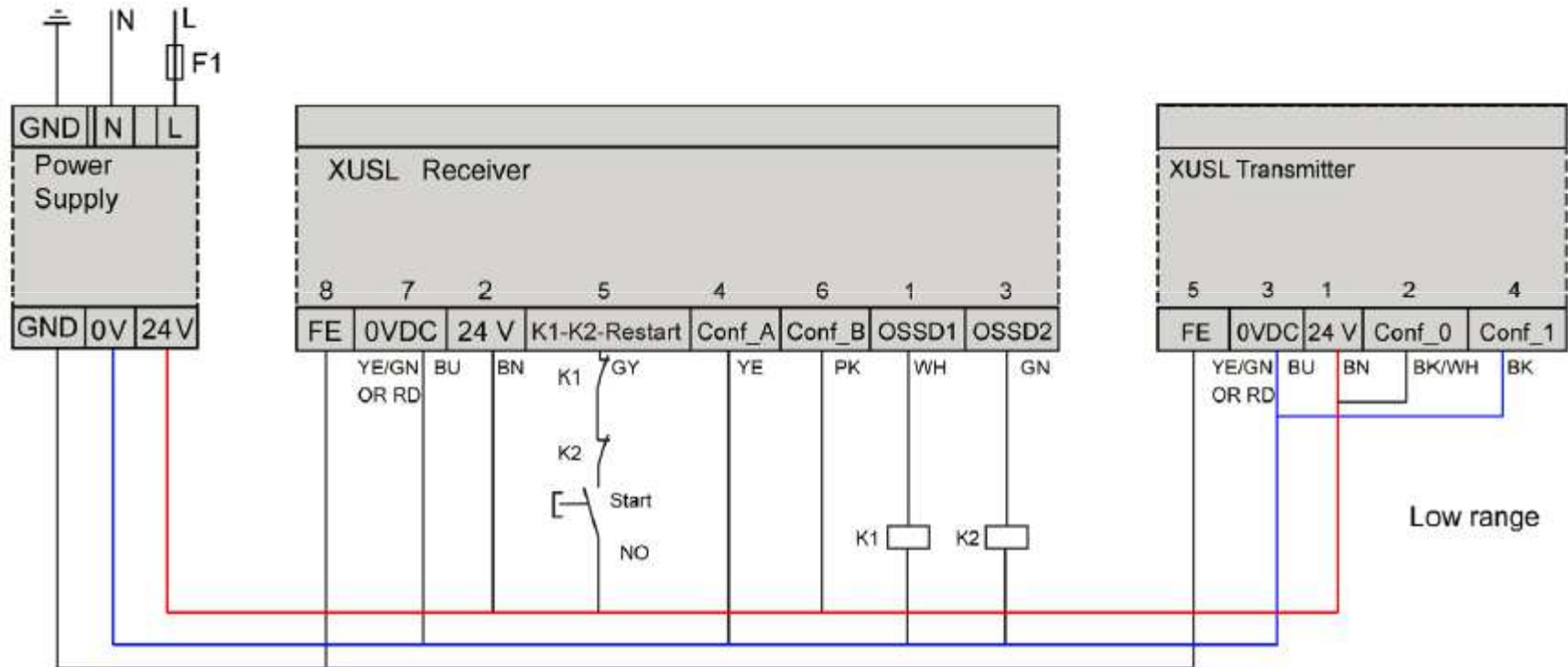
| Pin-Wire Color | Terminal Block # | Description |
|----------------|------------------|-------------|
| 3 Blue         | 4                | MTS         |
| 4 Black        | 5                | MTS Return  |
| 2 White        | 6                | 24 Vdc      |
| 1 Brown        | 7                | 0 Vdc       |
| 5 Green        | 8                | Earth       |

*NOTE: MTS = Machine test signal.*



# New XUSL4E light curtain

- Cabling details in the stand-alone solution

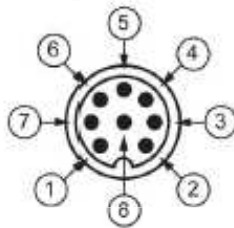


# New XUSL4E light curtain



- Pre-wired connector pin-out
  - Receiver connections

This figure describes the receiver connections:



*NOTE: As viewed from the M12 connection on the endcap of the receiver.*

This table describes the pin-wire connections for the M12, 8-Pin, master primary connector, or single pair models:

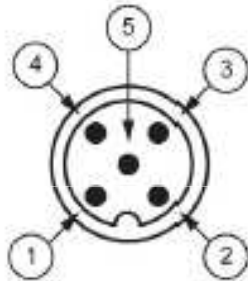
| M12, 8-PIN Single pair models (XUSL4E or XUSL2E) or Master models primary connector (XUSL4E) |                       |                        |
|--|-----------------------|------------------------|
| Pin Number   | Pin-Wire Color        | Description            |
| 1  | White                 | OSSD1                  |
| 2  | Brown                 | +24 Vdc                |
| 3  | Green                 | OSSD2                  |
| 4  | Yellow                | Configuration_A        |
| 5  | Grey                  | K1_K2 Feedback/Restart |
| 6  | Pink                  | Configuration_B        |
| 7  | Blue                  | 0 Vdc                  |
| 8  | Yellow/Green (or Red) | FE                     |

# New XUSL4E light curtain

- Pre-wired connector pin-out
  - Transmitter connections



This figure describes the transmitter connections:



*NOTE: As viewed from the M12 connection on the endcap of the receiver.*

This table describes the pin-wire connections for the M12, 5-Pin transmitter connections:

| M12, 5-Pin (XUSL2E and XUSL4E) |                       |                                   |
|--------------------------------|-----------------------|-----------------------------------|
| Pin Number                     | Pin-Wire Color        | Description                       |
| 1                              | Brown                 | +24 Vdc                           |
| 2                              | Black/White           | Configuration_0 or Master/Slave_A |
| 3                              | Blue                  | 0 Vdc                             |
| 4                              | Black                 | Configuration_1 or Master/Slave_B |
| 5                              | Yellow/Green (or Red) | FE                                |

# New XUSL4E light curtain

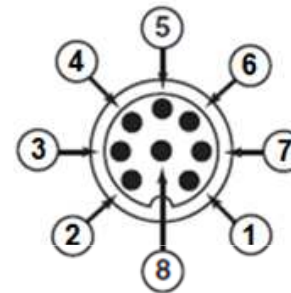
- Correspondance table to connect the XUSLP cabling to the new XUSL4E



- Receiver M12 8-pin

| Pin nb | Old pre-wired connector | New pre-wired connector |
|--------|-------------------------|-------------------------|
| 1      | Brown BN                | White                   |
| 2      | White WH                | Brown                   |
| 3      | Blue BU                 | Green                   |
| 4      | Pink PK                 | Yellow                  |
| 5      | Grey GY                 | Grey                    |
| 6      | Yellow YE               | Pink                    |
| 7      | Green GN                | Blue                    |
| 8      | Red RD                  | Red                     |

Receiver Connections (M12, 8-Pin)



NOTE: As viewed from the M12 connection on the pre-wired connector



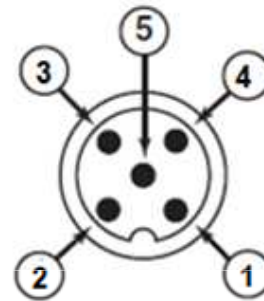
# New XUSL4E light curtain

- Correspondance table to connect the XUSLP cabling to the new XUSL4E

- Transmitter M12 5-pin



Transmitter Connections (M12, 5-Pin)



*NOTE: As viewed from the M12 connection on the pre-wired connector*

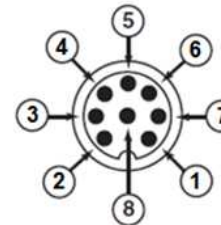
| Pin nb   | Old pre-wired connector | New pre-wired connector |
|----------|-------------------------|-------------------------|
| <b>1</b> | White WH                | Brown                   |
| <b>2</b> | Brown BN                | Black/White             |
| <b>3</b> | Black BK                | Blue                    |
| <b>4</b> | Blue BU                 | Black                   |
| <b>5</b> | Green GN                | Yellow/Green or Red     |

# New XUSL4E light curtain

- Wire connection changing on the 24Vdc power supply
  - M12 8-pin connector (receiver)



Receiver Connections (M12, 8-Pin)



NOTE: As viewed from the M12 connection on the pre-wired connector

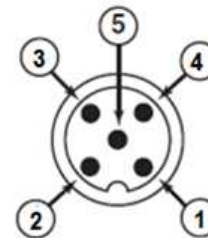
| Pin nb | Old pre-wired connector (color) | Old connection      | New connection      |
|--------|---------------------------------|---------------------|---------------------|
| 1      | Brown BN                        | 0V                  | K2 load - 0V        |
| 2      | White WH                        | 24V                 | No changing         |
| 3      | Blue BU                         | PLC input           | K1 load - 0V        |
| 4      | Pink PK                         | Feedback – 0V       | Feedback – 24V      |
| 5      | Grey GY                         | Start – 0V          | 0V                  |
| 6      | Yellow YE                       | K2 load - 0V        | 24V                 |
| 7      | Green GN                        | GND (FE connection) | 0V                  |
| 8      | Red RD                          | K1 load - 0V        | GND (FE connection) |

# New XUSL4E light curtain



- Wire connection changing on the 24Vdc power supply
  - M12 5-pin connector (transmitter)

Transmitter Connections (M12, 5-Pin)



NOTE: As viewed from the M12 connection on the pre-wired connector

| Pin nb | Old pre-wired connector (color) | Old connection      | New connection |
|--------|---------------------------------|---------------------|----------------|
| 1      | White WH                        | 24V                 | No changing    |
| 2      | Brown BN                        | 0V                  | 24V            |
| 3      | Black BK                        | Test loop           | 0V             |
| 4      | Blue BU                         | Test loop           | 0V             |
| 5      | Green GN                        | GND (FE connection) | No changing    |