

XUSL4E light curtain - cabling

- How to replace the obsolete XUSLB/D by the new XUSL4E and re-using the old cabling
- Old & new parts use the same M12 5 or 8-pin connectors and the same conductor number (difference = colour)
- Wires need to be changed on the 24Vdc power supply

Simply easy!™



Telemecanique

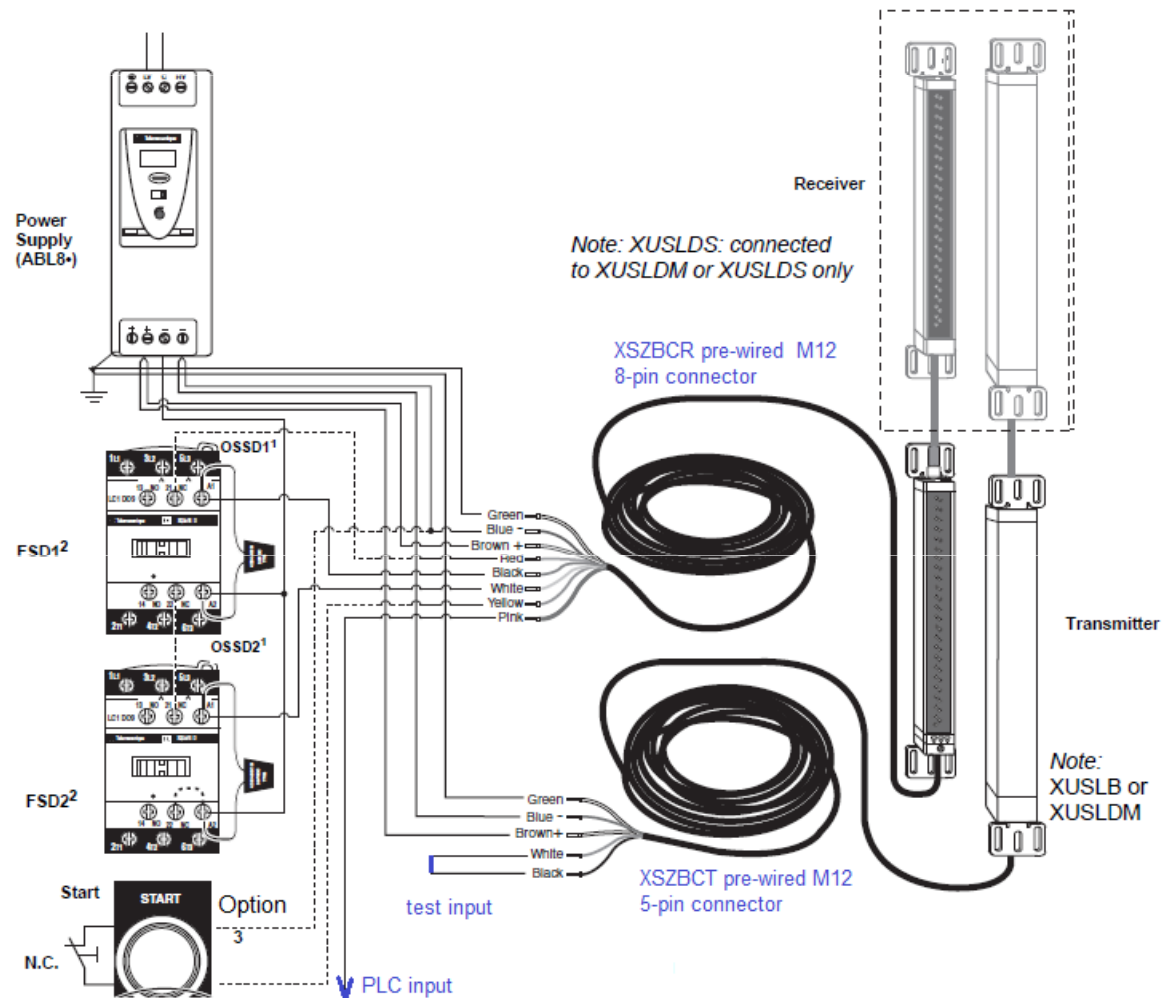
Sensors

Obsolete XUSLD/B light curtain

- Cabling details in the stand-alone solution



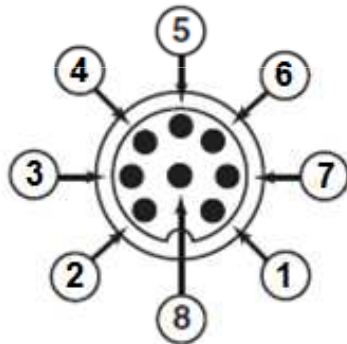
Figure 22: XUSLB/DM/DS Wiring with Final Switching Devices



Obsolete XUSLD/B light curtain

- XSZBCR/T pre-wired connector pin-outs

Receiver Connections (M12, 8-Pin)

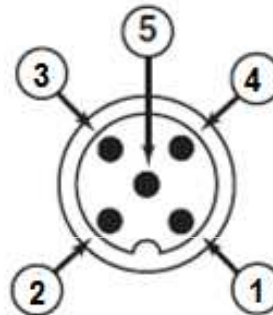


NOTE: As viewed from the M12 connection on the pre-wired connector

Pin-Wire Color	Description
1-Brown	+24 Vdc
2-Blue	0 Vdc
3-Green	Ground
4-White	OSSD 2
5-Yellow	Start
6-Red	EDMMPCE
7-Pink	Auxiliary output
8-Black	OSSD 1

NOTE: OSSD = Output safety switching device

Transmitter Connections (M12, 5-Pin)



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

Pin-Wire Color	Description
1-Blue	0 Vdc
2-Brown	24 Vdc
3-White	MTS
4-Black	MTS return
5-Green	Ground

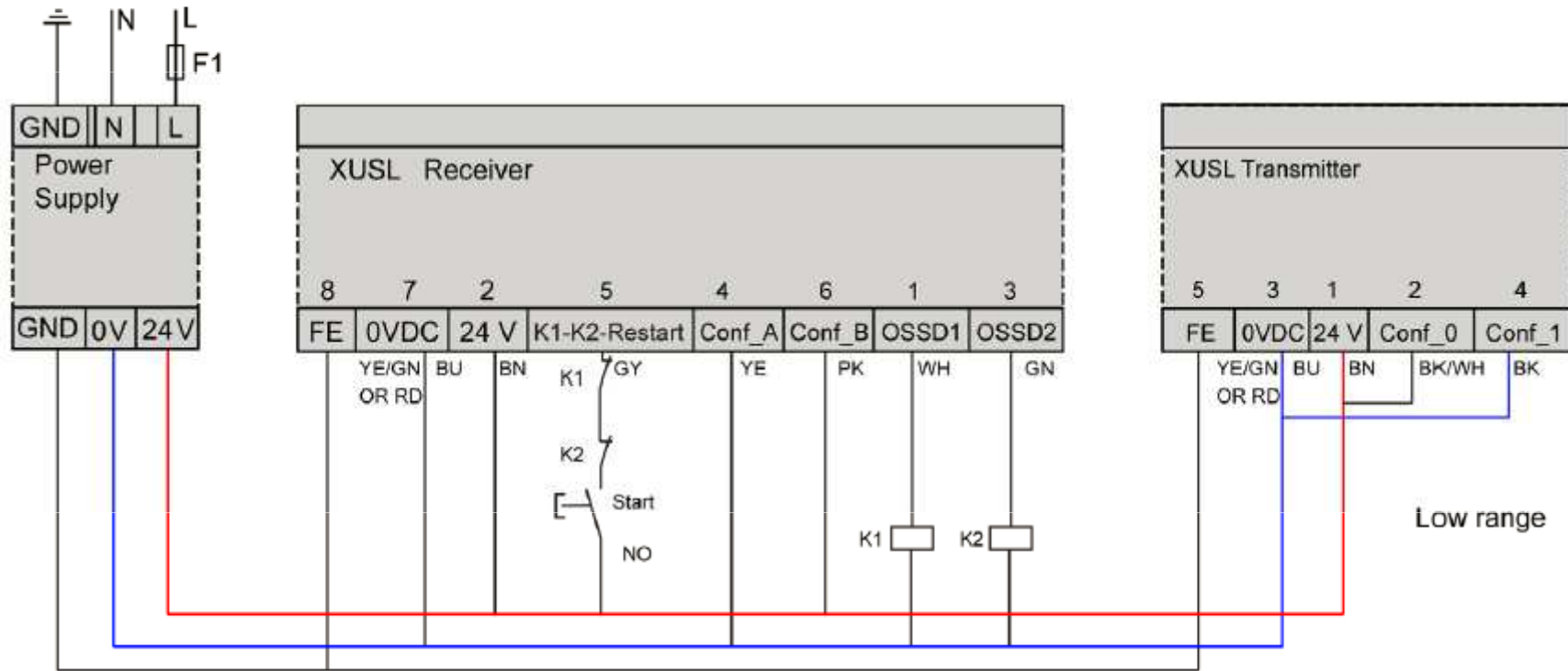
NOTE: MTS = Machine test signal.

For use with	Length m	Reference
Transmitter type	5	XSZ BCT05 ★
	10	XSZ BCT10 ★
	15	XSZ BCT15 ★
	30	XSZ BCT30 ★
Receiver type	5	XSZ BCR05 ★
	10	XSZ BCR10 ★
	15	XSZ BCR15 ★
	30	XSZ BCR30 ★



New XUSL4E light curtain

- Cabling details in the stand-alone solution

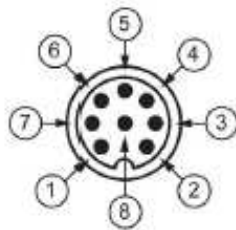


New XUSL4E light curtain



- 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:

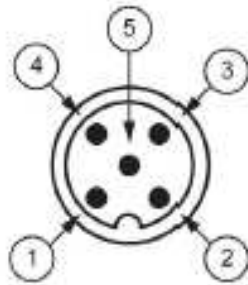
M12, 8-PIN Single pair models (XUSL4E or XUSL2E) or Master models primary connector (XUSL4E)		
Pin Number	Pin-Wire Color	Description
1	White	OSSD1
2	Brown	+24 Vdc
3	Green	OSSD2
4	Yellow	Configuration_A
5	Grey	K1_K2 Feedback/Restart
6	Pink	Configuration_B
7	Blue	0 Vdc
8	Yellow/Green (or Red)	FE

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

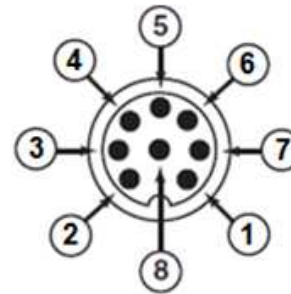
New XUSL4E light curtain



- Correspondance table to connect the XUSLB/D cabling to the new XUSL4E
 - Receiver M12 8-pin

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

Receiver Connections (M12, 8-Pin)



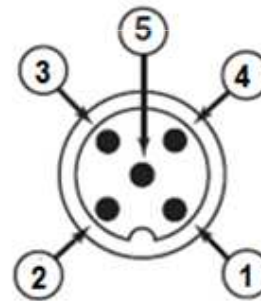
NOTE: As viewed from the M12 connection on the pre-wired connector

New XUSL4E light curtain

- Correspondance table to connect the XUSLB/D 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

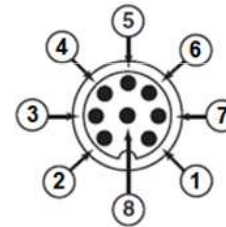
Pin nb	Old pre-wired connector	New pre-wired connector
1	Blue BU	Brown
2	Brown BN	Black/White
3	White WH	Blue
4	Black BK	Black
5	Green GN	Yellow/Green or Red

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- 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

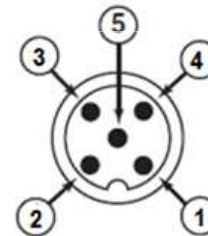
Pin nb	Old pre-wired connector (color)	Old connection	New connection
1	Brown BN	24V	K2 load - 0V
2	Blue BU	0V	24V
3	Green GN	GND (FE connection)	K1 load - 0V
4	White WH	K2 load - 0V	Feedback – 24V
5	Yellow YE	24V or 0V	0V
6	Red RD	Feedback - 0V	24V
7	Pink	PLC input	0V
8	Black BK	K2 load - 0V	GND (FE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

New XUSL4E light curtain

- XUSL4E wired with the old XUSLB/D pre-wired M12 connectors

