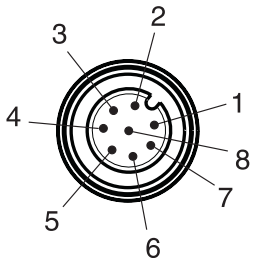
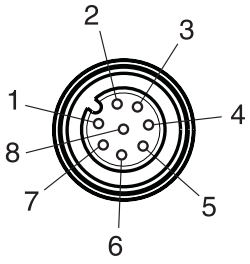
Adapter M12 8p-8p M12 8p-4p

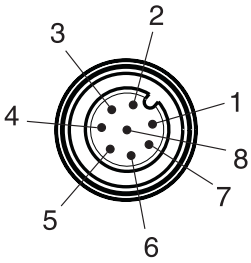
Connector pin assignment



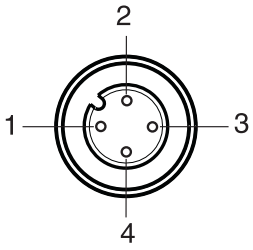
Plan view of
plug-in connector X1



Plan view of
plug-in connector X2

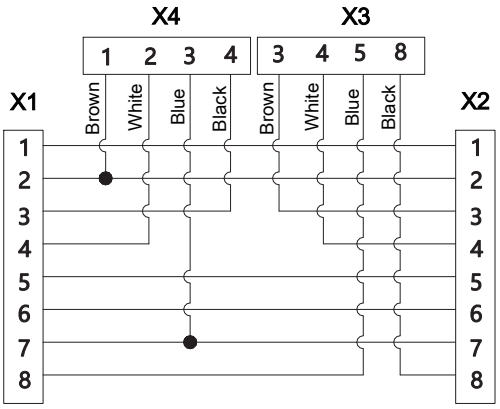


Plan view of
plug-in connector X3



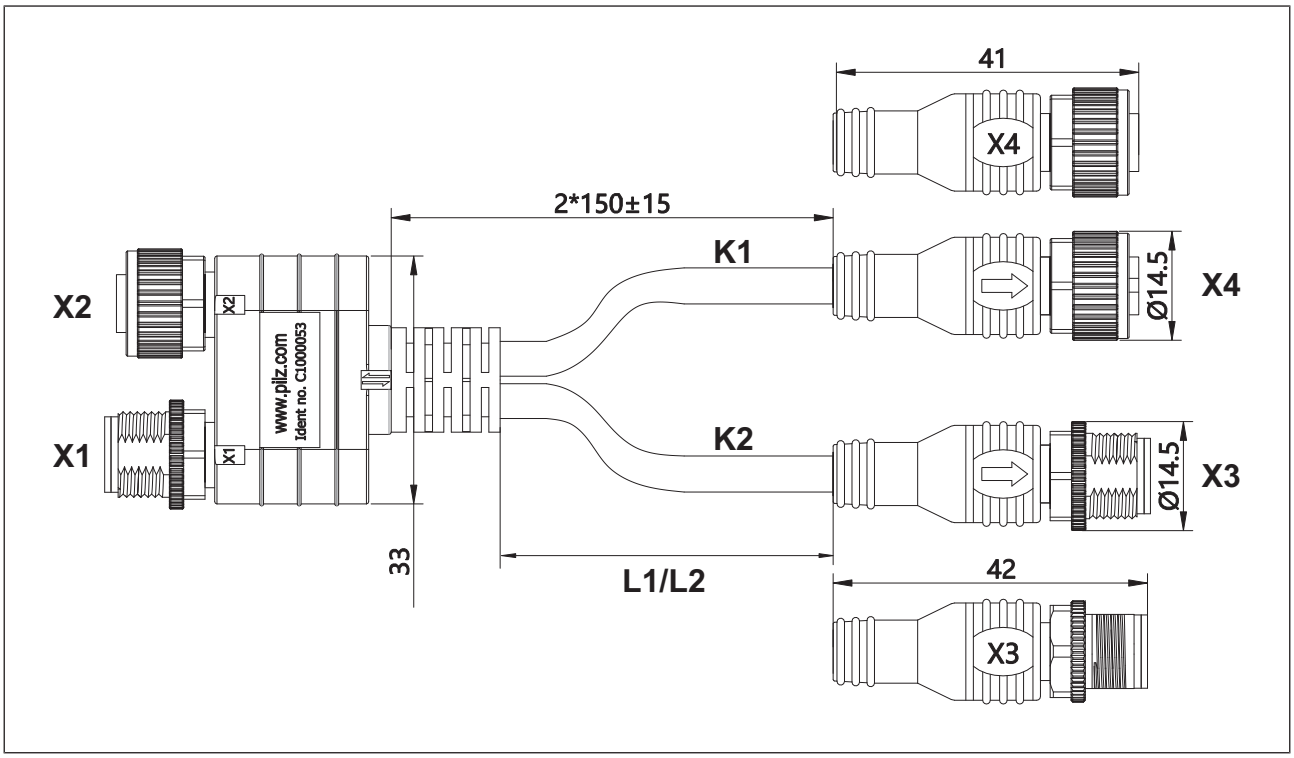
Plan view of
plug-in connector X4

Contact assignment



Adapter M12 8p-8p M12 8p-4p

Dimensions in mm



Technical details

General	
Certifications	**CE, UKCA**
Electrical data	
Rated voltage	
Voltage UB	**30 V**
Rated current	**2 A**
Typ. conductor resistance K1	**87.5 Ohm/km**
Typ. conductor resistance K2	**87.5 Ohm/km**
Insulation resistance	**100 MOhm**
Environmental data	
Ambient temperature	
Temperature range	**-40 - 80 °C**
Temperature range (moving)	**-15 - 80 °C**
Airgap creepage	
Pollution degree	**3**

Adapter M12 8p-8p M12 8p-4p

Environmental data	
Protection type	
X1 when inserted	**IP67 when screwed in place**
X2 when inserted	**IP67 when screwed in place**
X3 when inserted	**IP67 when screwed in place**
X4 when inserted	**IP67 when screwed in place**
Mechanical data	
Plug connector X1	**M12, 8-pin male connector**
in accordance with the standard	**IEC 61076-2-101**
Form, plug-in connector X1	**Straight**
Coding of plug-in connector X1	**A-coded**
Housing colour of plug-in connector X1	**Yellow**
Plug connector X2	**M12, 8-pin female connector**
in accordance with the standard	**IEC 61076-2-101**
Form, plug-in connector X2	**Straight**
Coding of plug-in connector X2	**A-coded**
Housing colour of plug-in connector X2	**Yellow**
Plug-in connector X3	**M12, 8-pin male connector**
in accordance with the standard	**IEC 61076-2-101**
Design of plug-in connector X3	**Straight**
Coding of plug-in connector X3	**A-coded**
Housing colour of plug-in connector X3	**Yellow**
Plug-in connector X4	**M12, 4-pin female connector**
in accordance with the standard	**IEC 61076-2-101**
Design of plug-in connector X4	**Straight**
Coding of plug-in connector X4	**A-coded**
Housing colour of plug-in connector X4	**Yellow**
Material of ring nut X1	**Zinc with gold coating**
Material of ring nut X2	**Zinc with gold coating**
Material of ring nut X3	**Zinc with gold coating**
Material of ring nut X4	**Zinc with gold coating**
Housing material X1	**TPU**
Housing material X2	**TPU**
Housing material X3	**TPU**
Housing material X4	**TPU**
Material of contact surface X1	**CuZn gold-plated**
Material of contact surface X2	**CuZn gold-plated**
Material of contact surface X3	**CuZn gold-plated**
Material of contact surface X4	**CuZn gold-plated**
Material of contact body	**Messing**
Material of gasket	**FKM**

Adapter M12 8p-8p M12 8p-4p

Mechanical data	
Material of pin	**CuZn**
Material of socket	**CuZn**
Conductor material K1	**Cu**
Conductor material K2	**Cu**
Insulating cover for conductor K1	**PP (9Y)**
Insulating cover for conductor K2	**PP (9Y)**
Mating cycles X1	**500**
Mating cycles X2	**500**
Mating cycles X3	**500**
Mating cycles X4	**500**
Cable length L1	**0,15 m**
Cable length L2	**0,15 m**
Cable length tolerance L1	**+/- 15 mm**
Cable length tolerance L2	**+/- 15 mm**
Colour of external cable insulation K1	**Signal yellow RAL 1003**
Colour of external cable insulation K2	**Signal yellow RAL 1003**
Colour of housing	**Yellow**
Cable insulation material K1	**PUR**
Cable insulation material K2	**PUR**
Drag chain suitable K1	**No**
Drag chain suitable K2	**No**
Min. bending radius (moving) K1	**10 x Ø**
Min. bending radius (moving) K2	**10 x Ø**
Cable diameter K1	**4,9 mm**
Cable diameter K2	**4,9 mm**
Max. cable diameter K1	**5,1 mm**
Max. cable diameter K2	**5,1 mm**
Conductor cross section K1	**0,25 mm²**
Conductor cross section K2	**0,25 mm²**
Conductor cross section AWG K1	**24**
Conductor cross section AWG K2	**24**
Shielding K1	**No**
Shielding K2	**No**
No. of wires K1	**4**
No. of wires K2	**4**
Certification cable K1	**UL AWM-Style 20233**
Certification cable K2	**UL AWM-Style 20233**
Certification plug-in connector X1	**UL 94 HB**
Certification plug-in connector X2	**UL 94 HB**
Certification plug-in connector X3	**UL 94 HB**

Adapter M12 8p-8p M12 8p-4p

Mechanical data	
Approval of plug-in connector X4	**UL 94 HB**
Halogen-free	**No**
Silicone-free	**No**
Oil resistance	**Resistant**
Non-flammability	**UL FT2**
Torque of the interlock screw	**0.4 ... 0.8 Nm**
Weight	**54 g**

Order reference

Product type	Features	Order no.
Adapter/M12-8SM/ M12-8SM/M12-4SF/ M12-8SF	Adapter to connect series-connectable PILZ sensors to PITgatebox IOLS, 4-pin M12 female connector, straight, A-coded and 8-pin M12 male connector, straight, A-coded to 8-pin M12 male connector, straight, A-coded, and 8-pin M12 female connector, straight, A-coded, cable length:0.15 m	C1000053