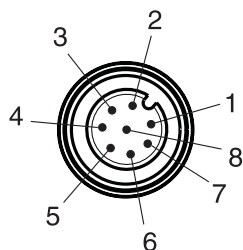


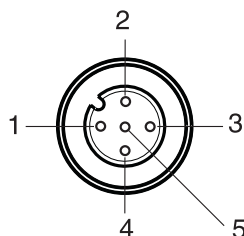
Accessories

Adapter M12 8p-M12 5p M12 5p

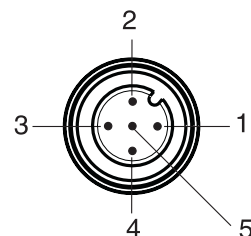
Connector pin assignment



Plan view of plug-in connector X1

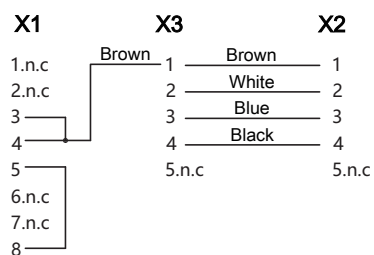


Plan view of plug-in connector X2

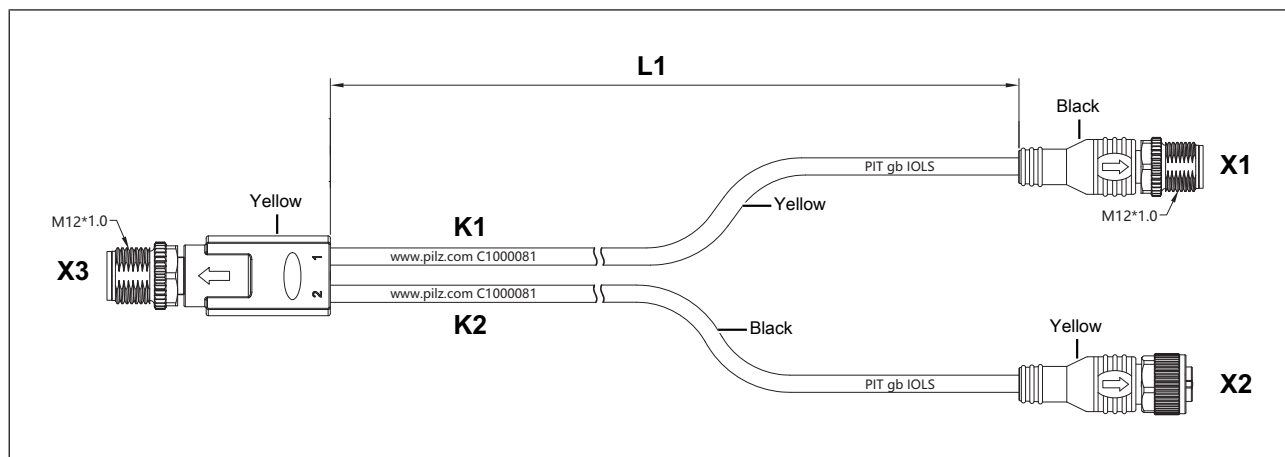


Plan view of plug-in connector X3

Contact assignment



Dimensions in mm



Accessories

Adapter M12 8p-M12 5p M12 5p

Technical details

General

Certifications **CE**

Electrical data

Rated voltage

Voltage UB **30 V**

Rated current **2 A**

Typ. conductor resistance K1 **87.5 Ohm/km**

Typ. conductor resistance K2 **≤ 87.6 Ohm/km**

Insulation resistance **100 MOhm**

Volume resistance **10 mOhm**

Environmental data

Ambient temperature

Temperature range **-40 - 80 °C**

Temperature range (moving) **-15 - 80 °C**

Airgap creepage

Pollution degree **3**

Protection type

X1 when inserted **IP69K when screwed in place**

X2 when inserted **IP69K when screwed in place**

X3 when inserted **IP69K 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 **Black**

Plug connector X2 **M12, 5-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, 5-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**

Material of ring nut X1 **Zn nickel-plated**

Material of ring nut X2 **Zn nickel-plated**

Material of ring nut X3 **Zn nickel-plated**

Accessories

Adapter M12 8p-M12 5p M12 5p

Mechanical data	
Housing material X1	TPU
Housing material X2	TPU
Housing material X3	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 gasket	FKM
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	100
Mating cycles X2	100
Mating cycles X3	100
Cable length L1	0,15 m
Cable length L2	0,15 m
Colour of external cable insulation K1	Signal yellow RAL 1003
Colour of external cable insulation K2	Black
Cable insulation material K1	PUR
Cable insulation material K2	PUR
Drag chain suitable K1	No
Min. bending radius (moving) K1	10 x Ø
Min. bending radius (moving) K2	12 x Ø
Cable diameter K1	4,9 mm
Cable diameter K2	4,4 mm
Max. cable diameter K1	5,1 mm
Max. cable diameter K2	4,55 mm
Conductor cross section K1	0,25 mm ²
Conductor cross section K2	0,26 mm ²
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 20549
Certification plug-in connector X1	UL
Certification plug-in connector X2	UL
Certification plug-in connector X3	UL

Accessories

Adapter M12 8p-M12 5p M12 5p

Mechanical data

Halogen-free	Yes
Silicone-free	No
Oil resistance	Resistant
Non-flammability	FT2
Torque of the interlock screw	0.4 ... 0.8 Nm
Weight	44 g

Order reference

Product type	Features	Item no.
Adapter/GB/ M12-8SMX/ M12-5SFX/ M12-5SMX/PT	Adapter for using the PITgatebox IOLS without further series connection of Pilz sensors, 8-pin M12 male connector, straight, A-coded and 5-pin M12 female connector, straight, A-coded to 5-pin M12 male connector, straight, A-coded, cable length: 0.15 m	C1000081