Visualisation; Diagnostics

Easy to Configure

Programming IEC 61131-3

Rapid Installation

PNOZ msi6p

PILZ
THE SPIRIT OF SAFETY

▸ Accessories PNOZmulti

Description

The connection cable PNOZ msi6p is used to connect an encoder to the speed monitors PNOZ ms2p, PNOZ ms3p, PNOZ ms4p or PNOZ s30.

The connection to the speed monitor is made via the RJ45 connector.

ℹ️	**INFORMATION** Remove the protective cover of the RJ45 connector after installation in the control cabinet.

⚠️	**CAUTION!** Communication errors may occur if the adapter cable is too long or there are any external sources of interference. Use an adapter cable that's less than 5 m in length. Lay the adapter cable separately from any potential sources of interference, such as drive cables leading to the motor, for example.

Connection
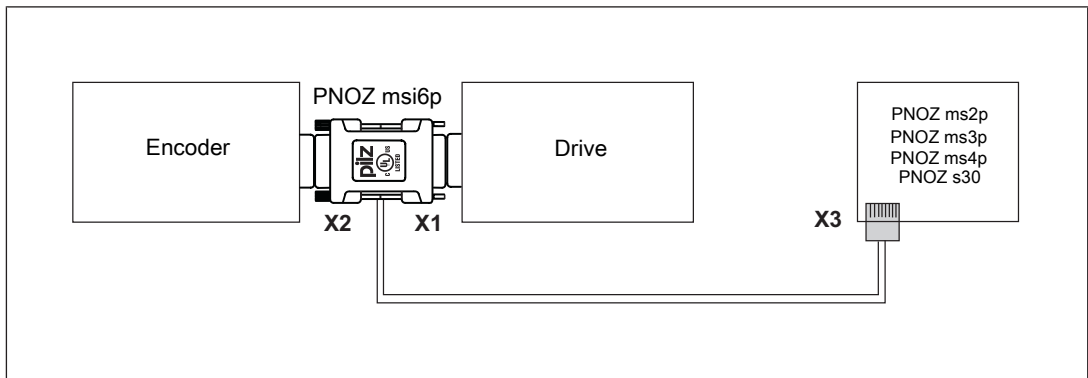
Connector pin assignment
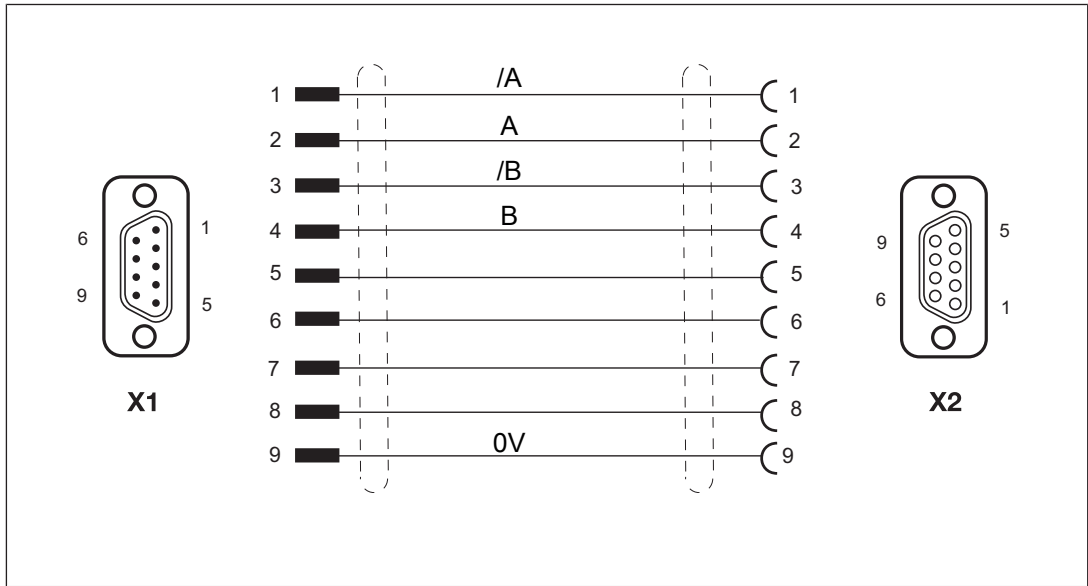
X3	Pin	Track
	1	n.c.
	2	0 V
	3	n.c.
	4	A
	5	/A
	6	n.c.
	7	B
	8	/B

INFORMATION

The signals Z and /Z for the speed monitor PNOZ s30 are not recorded.

Dimensions

Technical details Order no. 773861, 773860

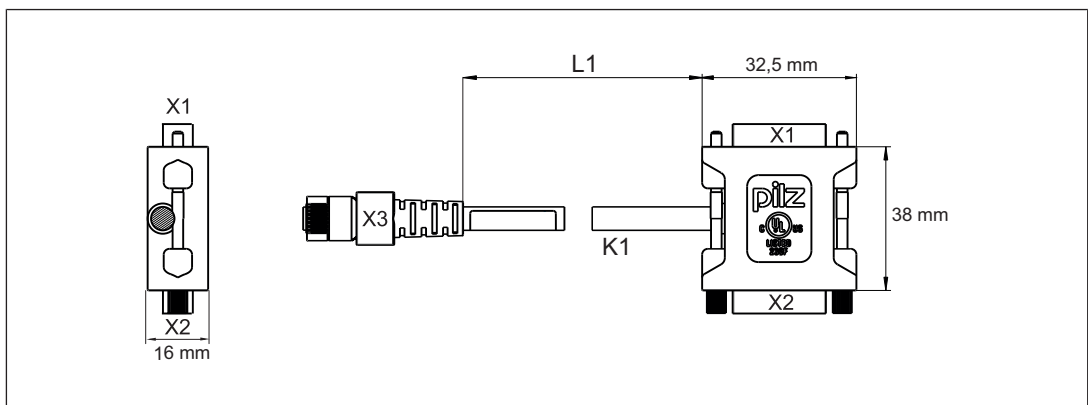| General	773861	773860
Certifications	cULus Listed	cULus Listed
Electrical data	**773861**	**773860**
Operating voltage	30 V	30 V
Insulation resistance	10 MOhm	10 MOhm
Environmental data	**773861**	**773860**
Ambient temperature		
Temperature range	0 - 60 °C	0 - 60 °C
Temperature range (moving)	0 - 60 °C	0 - 60 °C
Storage temperature		
Temperature range	-25 - 70 °C	-25 - 70 °C
Condensation during operation	Not permitted	Not permitted
Protection type		
X1 when inserted	IP20	IP20
X2 when inserted	IP20	IP20
X3 when inserted	IP20	IP20
Housing	IP20	IP20
Mounting area (e.g. control cabinet)	IP54	IP54
Mechanical data	**773861**	**773860**
Plug-in connector X1	9-pin D-Sub male connector	9-pin D-Sub male connector
Form, plug-in connector X1	Straight	Straight
Plug-in connector X2	9-pin D-Sub female connector	9-pin D-Sub female connector
Form, plug-in connector X2	Straight	Straight
Plug-in connector X3	8-pin RJ45 male connector	8-pin RJ45 male connector
Design of plug-in connector X3	Straight	Straight
Fixing screws	M3	M3
Housing material X1	Nickel steel, tin-plated	Nickel steel, tin-plated
Housing material X2	Nickel steel, tin-plated	Nickel steel, tin-plated
Housing material X3	PBT	PBT
Material of contact surface X1	Au	Au
Material of contact surface X2	Au	Au
Material of contact surface X3	Au	Au
Material of pin	Cu alloy	Cu alloy
Material of socket	Cu alloy	Cu alloy
Mating cycles X1	50	50
Mating cycles X2	50	50
Mating cycles X3	1500	1500
Cable length L1	1,5 m	2,5 m
Cable length tolerance K1	+/- 0,15 m	+/- 0,15 m
Colour of external cable insulation K1	Green, similar to RAL6018	Green, similar to RAL6018
Colour of housing	Black RAL 9005	Black RAL 9005

Mechanical data	773861	773860
Cable insulation material K1	**PUR**	**PUR**
Drag chain suitable K1	**yes**	**yes**
Min. bending radius (fixed permanently) K1	**8 x Ø**	**8 x Ø**
Min. bending radius (moving) K1	**10 x Ø**	**10 x Ø**
Cable diameter K1	**5,8 mm**	**5,8 mm**
Max. cable diameter K1	**6 mm**	**6 mm**
Conductor cross section K1	**0,14 mm²**	**0,14 mm²**
Conductor cross section AWG K1	**26**	**26**
Wire colour K1	**1: white, 2: brown, 3: green, 4: yellow, 5: grey, 6: pink, 7: blue, 8: red**	**1: white, 2: brown, 3: green, 4: yellow, 5: grey, 6: pink, 7: blue, 8: red**
Shielding K1	**yes**	**yes**
Wire layer separation K1	**No**	**No**
No. of wires K1	**8**	**8**
Certification cable K1	**UL AWM-Style 20233**	**UL AWM-Style 20233**
Certification plug-in connector X1	**UL94 V-0**	**UL94 V-0**
Certification plug-in connector X2	**UL94 V-0**	**UL94 V-0**
Certification plug-in connector X3	**UL94 V-0**	**UL94 V-0**
Material		
Housing	**TPE-SEBS UL 94 HB**	**TPE-SEBS UL 94 HB**
Dimensions		
Height	**38 mm**	**38 mm**
Width	**32,5 mm**	**32,5 mm**
Depth	**16 mm**	**16 mm**
Weight	**68 g**	**110 g**

Technical details Order no. 773873, 773859

General	773873	773859
Certifications	**cULus Listed**	**cULus Listed**
Electrical data	**773873**	**773859**
Operating voltage	**30 V**	**30 V**
Insulation resistance	**10 MOhm**	**10 MOhm**
Environmental data	**773873**	**773859**
Ambient temperature		
Temperature range	**0 - 60 °C**	**0 - 60 °C**
Temperature range (moving)	**0 - 60 °C**	**0 - 60 °C**
Storage temperature		
Temperature range	**-25 - 70 °C**	**-25 - 70 °C**
Condensation during operation	**Not permitted**	**Not permitted**

Environmental data	773873	773859
Protection type		
X1 when inserted	**IP20**	**IP20**
X2 when inserted	**IP20**	**IP20**
X3 when inserted	**IP20**	**IP20**
Housing	**IP20**	**IP20**
Mounting area (e.g. control cabinet)	**IP54**	**IP54**
Mechanical data	**773873**	**773859**
Plug-in connector X1	**9-pin D-Sub male connector**	**9-pin D-Sub male connector**
Form, plug-in connector X1	**Straight**	**Straight**
Plug-in connector X2	**9-pin D-Sub female connector**	**9-pin D-Sub female connector**
Form, plug-in connector X2	**Straight**	**Straight**
Plug-in connector X3	**8-pin RJ45 male connector**	**8-pin RJ45 male connector**
Design of plug-in connector X3	**Straight**	**Straight**
Fixing screws	**M3**	**M3**
Housing material X1	**Nickel steel, tin-plated**	**Nickel steel, tin-plated**
Housing material X2	**Nickel steel, tin-plated**	**Nickel steel, tin-plated**
Housing material X3	**PBT**	**PBT**
Material of contact surface X1	**Au**	**Au**
Material of contact surface X2	**Au**	**Au**
Material of contact surface X3	**Au**	**Au**
Material of pin	**Cu alloy**	**Cu alloy**
Material of socket	**Cu alloy**	**Cu alloy**
Mating cycles X1	**50**	**50**
Mating cycles X2	**50**	**50**
Mating cycles X3	**1500**	**1500**
Cable length L1	**4 m**	**7,5 m**
Cable length tolerance K1	**+/- 0,15 m**	**+/- 0,15 m**
Colour of external cable insulation K1	**Green, similar to RAL6018**	**Green, similar to RAL6018**
Colour of housing	**Black RAL 9005**	**Black RAL 9005**
Cable insulation material K1	**PUR**	**PUR**
Drag chain suitable K1	**yes**	**yes**
Min. bending radius (fixed permanently) K1	**8 x Ø**	**8 x Ø**
Min. bending radius (moving) K1	**10 x Ø**	**10 x Ø**
Cable diameter K1	**5,8 mm**	**5,8 mm**
Max. cable diameter K1	**6 mm**	**6 mm**
Conductor cross section K1	**0,14 mm²**	**0,14 mm²**
Conductor cross section AWG K1	**26**	**26**
Wire colour K1	**1: white, 2: brown, 3: green, 4: yellow, 5: grey, 6: pink, 7: blue, 8: red**	**1: white, 2: brown, 3: green, 4: yellow, 5: grey, 6: pink, 7: blue, 8: red**
Shielding K1	**yes**	**yes**
Wire layer separation K1	**No**	**No**

Mechanical data	773873	773859
No. of wires K1	8	8
Certification cable K1	UL AWM-Style 20233	UL AWM-Style 20233
Certification plug-in connector X1	UL94 V-0	UL94 V-0
Certification plug-in connector X2	UL94 V-0	UL94 V-0
Certification plug-in connector X3	UL94 V-0	UL94 V-0
Material		
Housing	TPE-SEBS UL 94 HB	TPE-SEBS UL 94 HB
Dimensions		
Height	38 mm	38 mm
Width	32,5 mm	32,5 mm
Depth	16 mm	16 mm
Weight	173 g	320 g

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
PNOZ msi6p Adapter Elau 9/9 1.5m	1.5 m	9-pin D-Sub male connector	9-pin D-Sub female connector	8-pin RJ45 male connector	773 861
PNOZ msi6p Adapter Elau 9/9 2.5m	2.5 m	9-pin D-Sub male connector	9-pin D-Sub female connector	8-pin RJ45 male connector	773 860
PNOZ MSI6P ADAPTER ELAU 9/9 4 m	4 m	9-pin D-Sub male connector	9-pin D-Sub female connector	8-pin RJ45 male connector	773 873
PNOZ msi6p Adapter Elau 9/9 7.5m	7.5 m	9-pin D-Sub male connector	9-pin D-Sub female connector	8-pin RJ45 male connector	773 859

▶ Support

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