



## PNOZ msi4Bp

**PILZ**  
THE SPIRIT OF SAFETY

► Accessories PNOZmulti

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SD means Secure Digital

## Description

The connection cable PNOZ msi4Bp is used to connect an encoder to the speed monitors PNOZ ms1p, PNOZ ms2p, PNOZ ms3p, PNOZ ms4p or PNOZ s30.

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



### INFORMATION

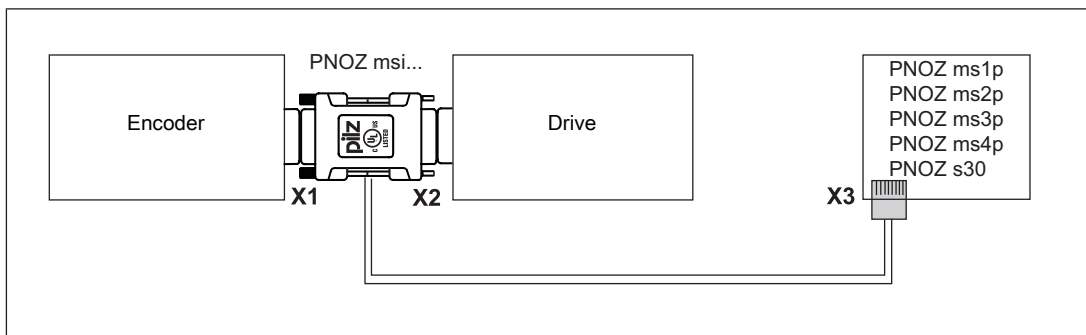
Remove the protective cover of the RJ45 connector after installation in the control cabinet.



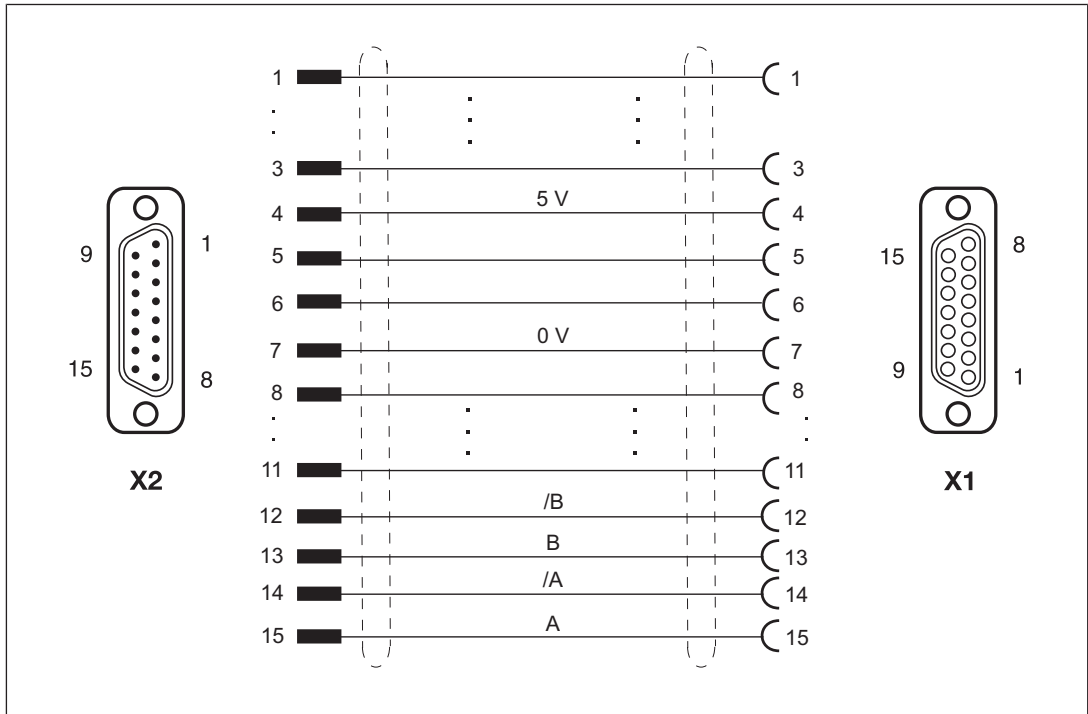
### CAUTION!

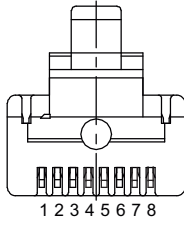
Communication errors may occur if the adapter cable is too long or there are any external sources of interference. Use an adapter cable that's less than 5 m in length. Lay the adapter cable separately from any potential sources of interference, such as drive cables leading to the motor, for example.

## Connection



### Connector pin assignment



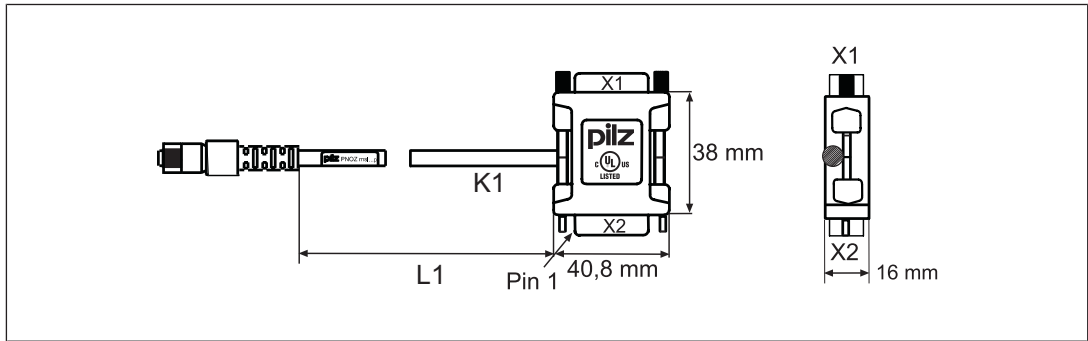
X3	Pin	Track
	1	5 V
	2	0 V
	3	n.c.
	4	A
	5	/A
	6	n.c.
	7	B
	8	/B



#### INFORMATION

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

### Dimensions



### Technical details

General	773849	773848	773866
Certifications	cULus Listed	cULus Listed	cULus Listed
Electrical data	773849	773848	773866
Operating voltage	30 V	30 V	30 V
Insulation resistance	10 MOhm	10 MOhm	10 MOhm
Environmental data	773849	773848	773866
Ambient temperature			
Temperature range	0 - 60 °C	0 - 60 °C	0 - 60 °C
Temperature range (moving)	0 - 60 °C	0 - 60 °C	0 - 60 °C
Storage temperature			
Temperature range	-25 - 70 °C	-25 - 70 °C	-25 - 70 °C
Condensation during operation	Not permitted	Not permitted	Not permitted
Protection type			
X1 when inserted	IP20	IP20	IP20
X2 when inserted	IP20	IP20	IP20
X3 when inserted	IP20	IP20	IP20
Housing	IP20	IP20	IP20
Mounting area (e.g. control cabinet)	IP54	IP54	IP54
Mechanical data	773849	773848	773866
Plug-in connector X1	15-pin D-Sub female connector	15-pin D-Sub female connector	15-pin D-Sub female connector
Form, plug-in connector X1	Straight	Straight	Straight
Plug-in connector X2	15-pin D-Sub male connector	15-pin D-Sub male connector	15-pin D-Sub male connector
Form, plug-in connector X2	Straight	Straight	Straight
Plug-in connector X3	8-pin RJ45 male connector	8-pin RJ45 male connector	8-pin RJ45 male connector
Design of plug-in connector X3	Straight	Straight	Straight

<b>Mechanical data</b>	<b>773849</b>	<b>773848</b>	<b>773866</b>
Fixing screws	<b>UNC 4-40</b>	<b>UNC 4-40</b>	<b>UNC 4-40</b>
Housing material X1	<b>Nickel steel, tin-plated</b>	<b>Nickel steel, tin-plated</b>	<b>Nickel steel, tin-plated</b>
Housing material X2	<b>Nickel steel, tin-plated</b>	<b>Nickel steel, tin-plated</b>	<b>Nickel steel, tin-plated</b>
Housing material X3	<b>PBT</b>	<b>PBT</b>	<b>PBT</b>
Material of contact surface X1	<b>Au</b>	<b>Au</b>	<b>Au</b>
Material of contact surface X2	<b>Au</b>	<b>Au</b>	<b>Au</b>
Material of contact surface X3	<b>Au</b>	<b>Au</b>	<b>Au</b>
Material of pin	<b>Cu alloy</b>	<b>Cu alloy</b>	<b>Cu alloy</b>
Material of socket	<b>Cu alloy</b>	<b>Cu alloy</b>	<b>Cu alloy</b>
Mating cycles X1	<b>50</b>	<b>50</b>	<b>50</b>
Mating cycles X2	<b>50</b>	<b>50</b>	<b>50</b>
Mating cycles X3	<b>1500</b>	<b>1500</b>	<b>1500</b>
Cable length L1	<b>2,5 m</b>	<b>5 m</b>	<b>1,5 m</b>
Cable length tolerance K1	<b>+/- 0,15 m</b>	<b>+/- 0,15 m</b>	<b>+/- 0,15 m</b>
Colour of external cable insulation K1	<b>Green, similar to RAL6018</b>	<b>Green, similar to RAL6018</b>	<b>Green, similar to RAL6018</b>
Colour of housing	<b>Black RAL 9005</b>	<b>Black RAL 9005</b>	<b>Black RAL 9005</b>
Cable insulation material K1	<b>PUR</b>	<b>PUR</b>	<b>PUR</b>
Drag chain suitable K1	<b>yes</b>	<b>yes</b>	<b>yes</b>
Min. bending radius (fixed permanently) K1	<b>8 x Ø</b>	<b>8 x Ø</b>	<b>8 x Ø</b>
Min. bending radius (moving) K1	<b>10 x Ø</b>	<b>10 x Ø</b>	<b>10 x Ø</b>
Cable diameter K1	<b>5,8 mm</b>	<b>5,8 mm</b>	<b>5,8 mm</b>
Max. cable diameter K1	<b>6 mm</b>	<b>6 mm</b>	<b>6 mm</b>
Conductor cross section K1	<b>0,14 mm<sup>2</sup></b>	<b>0,14 mm<sup>2</sup></b>	<b>0,14 mm<sup>2</sup></b>
Conductor cross section AWG K1	<b>26</b>	<b>26</b>	<b>26</b>
Wire colour K1	<b>White, brown, green, yellow, grey, pink, blue, red</b>	<b>White, brown, green, yellow, grey, pink, blue, red</b>	<b>White, brown, green, yellow, grey, pink, blue, red</b>
Shielding K1	<b>yes</b>	<b>yes</b>	<b>yes</b>
Wire layer separation K1	<b>No</b>	<b>No</b>	<b>No</b>
No. of wires K1	<b>8</b>	<b>8</b>	<b>8</b>
Certification cable K1	<b>UL AWM-Style 20233</b>	<b>UL AWM-Style 20233</b>	<b>UL AWM-Style 20233</b>
Certification plug-in connector X1	<b>UL94 V-0</b>	<b>UL94 V-0</b>	<b>UL94 V-0</b>
Certification plug-in connector X2	<b>UL94 V-0</b>	<b>UL94 V-0</b>	<b>UL94 V-0</b>
Certification plug-in connector X3	<b>UL94 V-0</b>	<b>UL94 V-0</b>	<b>UL94 V-0</b>

<b>Mechanical data</b>	<b>773849</b>	<b>773848</b>	<b>773866</b>
Material			
Housing	<b>TPE-SEBS UL 94 HB</b>	<b>TPE-SEBS UL 94 HB</b>	<b>TPE-SEBS UL 94 HB</b>
Dimensions			
Height	<b>38 mm</b>	<b>38 mm</b>	<b>38 mm</b>
Width	<b>40,8 mm</b>	<b>40,8 mm</b>	<b>40,8 mm</b>
Depth	<b>16 mm</b>	<b>16 mm</b>	<b>16 mm</b>
Weight	<b>114 g</b>	<b>190 g</b>	<b>93 g</b>

### Order reference

<b>Product type</b>	<b>Features</b>	<b>Connector X1</b>	<b>Connector X2</b>	<b>Connector X3</b>	<b>Order no.</b>
PNOZ msi4Bp Adapter SMC30 15/15 1.5m	1.5 m	15-pin D-Sub female connector	15-pin D-Sub male connector	8-pin RJ45 male connector	773 866
PNOZ msi4Bp Adapter SMC30 15/15 1.5m	1.5 m	15-pin D-Sub female connector	15-pin D-Sub male connector	8-pin RJ45 male connector	773 849
PNOZ msi4Bp Adapter SMC30 15/15 5.0m	5 m	15-pin D-Sub female connector	15-pin D-Sub male connector	8-pin RJ45 male connector	773 848

# ► Support

Technical support is available from Pilz round the clock.

## Americas

**Brazil**  
+55 11 97569-2804

**Canada**  
+1 888 315 7459

**Mexico**  
+52 55 5572 1300

**USA (toll-free)**  
+1 877-PILZUSA (745-9872)

## Asia

**China**  
+86 21 60880878-216

**Japan**  
+81 45 471-2281

**South Korea**  
+82 31 778 3300

## Australia

+61 3 95600621

## Europe

**Austria**  
+43 1 7986263-0

**Belgium, Luxembourg**  
+32 9 3217570

**France**  
+33 3 88104003

**Germany**  
+49 711 3409-444

**Ireland**  
+353 21 4804983

**Italy, Malta**  
+39 0362 1826711

## Scandinavia

+45 74436332

## Spain

+34 938497433

## Switzerland

+41 62 88979-32

## The Netherlands

+31 347 320477

## Turkey

+90 216 5775552

## United Kingdom

+44 1536 462203

## You can reach our international hotline on:

+49 711 3409-444  
support@pilz.com

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Headquarters: Pilz GmbH & Co. KG, Felix-Wankel-Straße 2, 73760 Ostfildern, Germany  
Telephone: +49 711 3409-0, Telefax: +49 711 3409-133, E-Mail: [info@pilz.com](mailto:info@pilz.com), Internet: [www.pilz.com](http://www.pilz.com)

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