PNOZ msi18p

PILZ
THE SPIRIT OF SAFETY

- Accessories PNOZmulti

Operating Manual-1003361-EN-03

This document is the original document.

All rights to this documentation are reserved by Pilz GmbH & Co. KG. Copies may be made for the user's internal purposes. Suggestions and comments for improving this documentation will be gratefully received.

Source code from third-party manufacturers or open source software has been used for some components. The relevant licence information is available on the Internet on the Pilz homepage.

Pilz®, PIT®, PMI®, PNOZ®, Primo®, PSEN®, PSS®, PVIS®, SafetyBUS p®, SafetyEYE®, SafetyNET p®, the spirit of safety® are registered and protected trademarks of Pilz GmbH & Co. KG in some countries.

SD means Secure Digital

Description

The connection cable PNOZ msi18p 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.

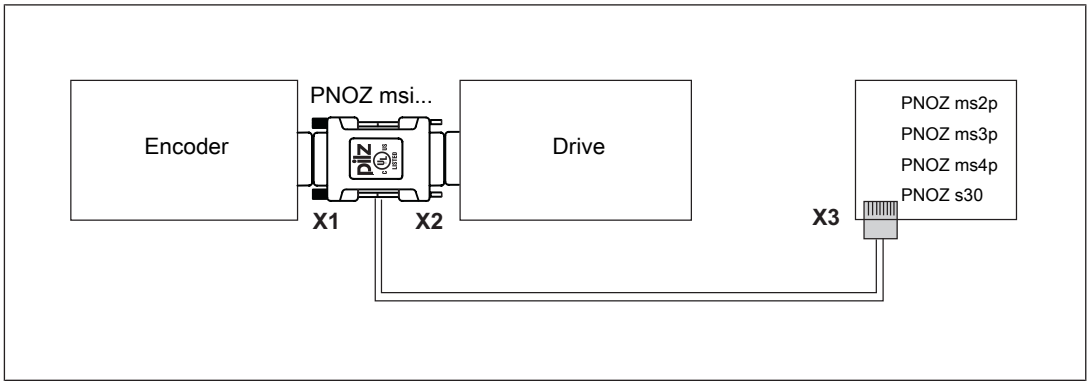
INFORMATION

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

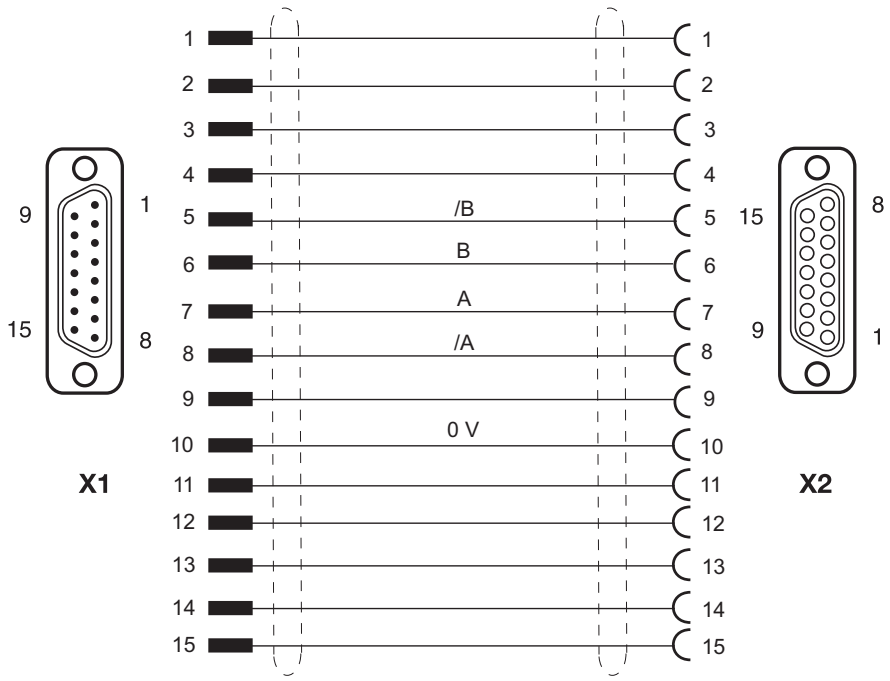
CAUTION!

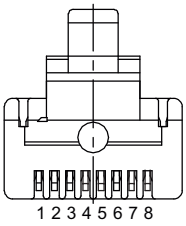
Communication errors may occur if the adapter cable is too long or there are any external sources of interference. Use an adapter cable that's less than 5 m in length. Lay the adapter cable separately from any potential sources of interference, such as drive cables leading to the motor, for example.

Connection



Connector pin assignment

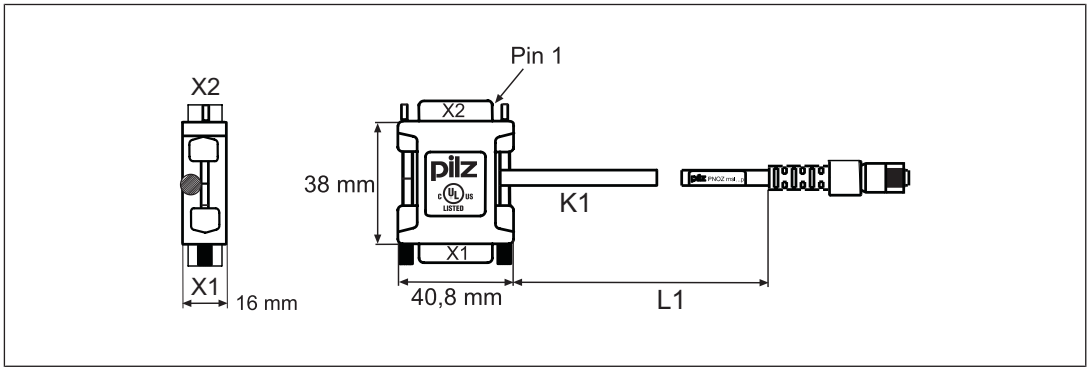


X3	Pin	Track
	1	n.c.
	2	0 V
	3	n.c.
	4	A
	5	/A
	6	n.c.
	7	B
	8	/B

INFORMATION

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

Dimensions



Technical details

General	
Certifications	**cULus Listed**
Electrical data	
Operating voltage	**30 V**
Insulation resistance	**10 MOhm**
Environmental data	
Ambient temperature	
Temperature range	**0 - 60 °C**
Temperature range (moving)	**0 - 60 °C**
Storage temperature	
Temperature range	**-25 - 70 °C**
Condensation during operation	**Not permitted**
Protection type	
X1 when inserted	**IP20**
X2 when inserted	**IP20**
X3 when inserted	**IP20**
Housing	**IP20**
Mounting area (e.g. control cabinet)	**IP54**
Mechanical data	
Plug-in connector X1	**15-pin D-Sub male connector**
Form, plug-in connector X1	**Straight**
Plug-in connector X2	**15-pin D-Sub female connector**
Form, plug-in connector X2	**Straight**
Plug-in connector X3	**8-pin RJ45 male connector**
Design of plug-in connector X3	**Straight**
Fixing screws	**UNC 4-40**
Housing material X1	**Nickel steel, tin-plated**
Housing material X2	**Nickel steel, tin-plated**
Housing material X3	**PBT**
Material of contact surface X1	**Au**
Material of contact surface X2	**Au**

Mechanical data	
Material of contact surface X3	**Au**
Material of pin	**Cu alloy**
Material of socket	**Cu alloy**
Mating cycles X1	**50**
Mating cycles X2	**50**
Mating cycles X3	**1500**
Cable length L1	**1,5 m**
Cable length tolerance K1	**+/- 0,15 m**
Colour of external cable insulation K1	**Green, similar to RAL6018**
Colour of housing	**Black RAL 9005**
Cable insulation material K1	**PUR**
Drag chain suitable K1	**yes**
Min. bending radius (fixed permanently) K1	**8 x Ø**
Min. bending radius (moving) K1	**10 x Ø**
Cable diameter K1	**5,8 mm**
Max. cable diameter K1	**6 mm**
Conductor cross section K1	**0,14 mm²**
Conductor cross section AWG K1	**26**
Wire colour K1	**White, brown, green, yellow, grey, pink, blue, red**
Shielding K1	**yes**
Wire layer separation K1	**No**
No. of wires K1	**8**
Certification cable K1	**UL AWM-Style 20233**
Certification plug-in connector X1	**UL94 V-0**
Certification plug-in connector X2	**UL94 V-0**
Certification plug-in connector X3	**UL94 V-0**
Material	
Housing	**TPE-SEBS UL 94 HB**
Dimensions	
Height	**38 mm**
Width	**40,8 mm**
Depth	**16 mm**
Weight	**89 g**

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
PNOZ msi18p Adapter Bos/Rex 15/15 1.5m	1.5 m	15-pin D-Sub male connector	15-pin D-Sub female connector	8-pin RJ45 male connector	773 888

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

Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.

Energy saving by Pilz

BLUECOMPETENCE Alliance Member
Partner of the Engineering Industry Sustainability Initiative

pilz
Partner of:
The Best of German Engineering

1003361-EN-03, 2019-07 Printed in Germany
© Pilz GmbH & Co. KG, 2019

CECE®, CHRE®, CMSE®, InduraNET p®, Leansafe®, Master of Safety®, Master of Security®, PAS4000®, PAScal®, PASconfig®, Pilz®, PIT®, PLID®, PMCprimo®, PMCprotego®, PMCtendo®, PMD®, PMI®, PNOZ®, PRBT®, PRCM®, Primo®, PRTM®, PSEN®, PSS®, PVIS®, SafetyBUS p®, SafetyEYE®, SafetyNET p®, THE SPIRIT OF SAFETY® are registered and protected trademark of Pilz GmbH & Co. KG in some countries. We would point out that product features may vary from the details stated in this document, depending on the status at the time of publication and the scope of the equipment. We accept no responsibility for the validity, accuracy and entirety of the text and graphics presented in this information. Please contact our Technical Sup if you have any questions.

We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

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, Internet: www.pilz.com

PILZ
THE SPIRIT OF SAFETY