MM A MINI-IO CAB09B

PILZ
THE SPIRIT OF SAFETY

- Accessories PNOZmulti

Operating Manual-1004607-EN-01

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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.

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SD means Secure Digital

Description

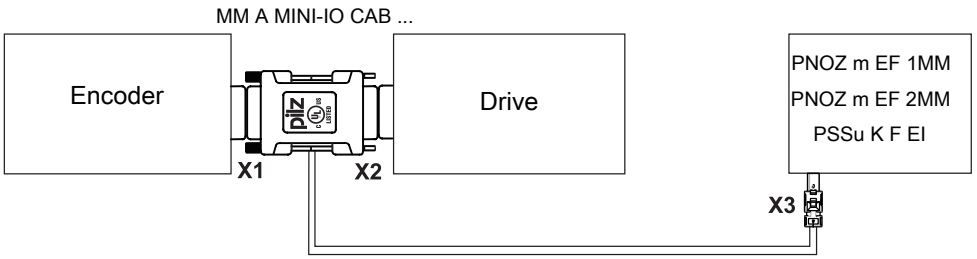
The connection cable MM A MINI-IO CAB09B is used to connect an encoder to the speed monitors PNOZ m EF 1MM, PNOZ m EF 2MM or PSSu K F EI.

The connection to the speed monitor is made via the Mini-IO connector.

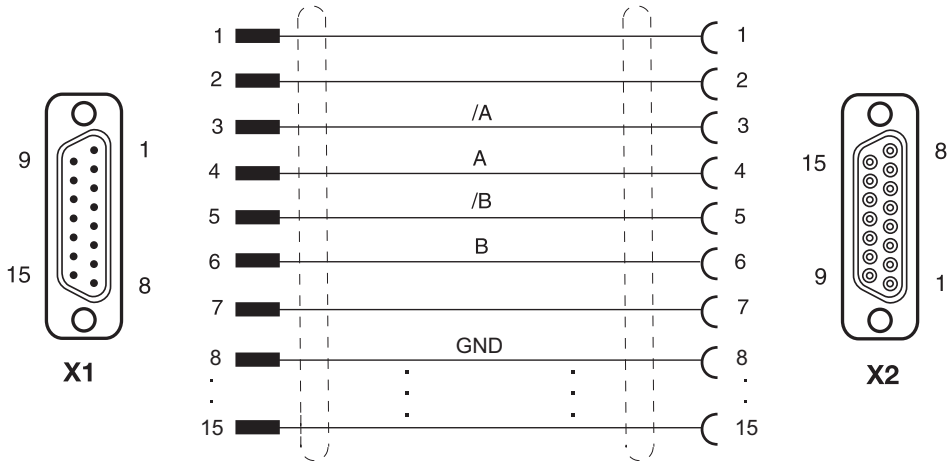
CAUTION!

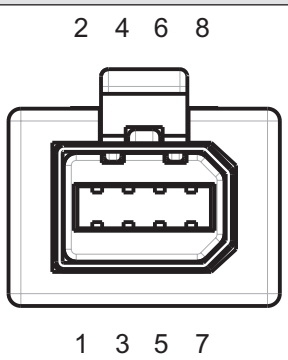
Communication errors may occur if the adapter cable is too long or there are any external sources of interference. Use an adapter cable that's less than 5 m in length. Lay the adapter cable separately from any potential sources of interference, such as drive cables leading to the motor, for example.

Connection



Connector pin assignment

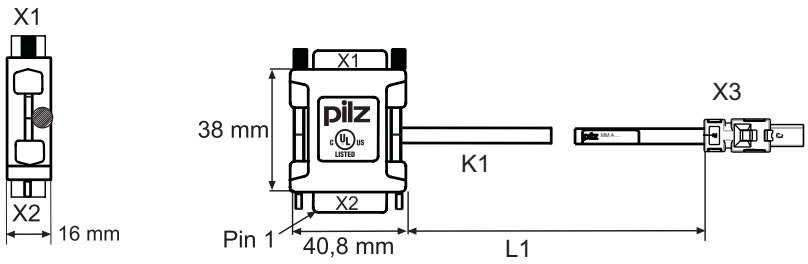


X3	Pin	Track
	1	S
	2	GND
	3	Z
	4	A
	5	/A
	6	/Z
	7	B
	8	/B

INFORMATION

The signals S, Z and /Z are not recorded.

Dimensions



Technical details

General	
Approvals	**cULus Listed**
Electrical data	
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**

Environmental data	
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 Mini-IO 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**
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	**2,5 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	**1: white, 2: brown, 3: green, 4: yellow, 5: grey, 6: pink, 7: blue, 8: red**
Shielding K1	**yes**
Wire layer separation K1	**No**
No. of wires K1	**8**
Approval cable K1	**UL AWM-Style 20233**
Approval of plug-in connector X1	**UL94 V-0**

Mechanical data	
Approval of plug-in connector X2	**UL94 V-0**
Approval of 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	**128 g**

Order references

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
MM A MINI-IO CAB09B 2.5M	2.5 m	15-pin D-Sub male connector	15-pin D-Sub female connector	8-pin Mini-IO male connector	772 260

Support

Technical support is available from Pilz round the clock.

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Energy saving by Pilz

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