

# MM A MINI-IO CAB02A/B



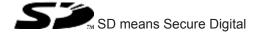
> Accessories PNOZmulti

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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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#### **Description**

The connection cable MM A MINI-IO CAB02A/B is used to connect an encoder to the speed monitors PNOZ m EF 1MM, PNOZ m EF 2MM or PSSu K F EI.

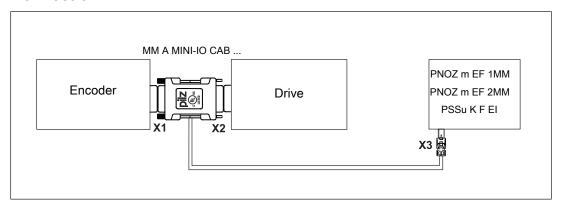
The connection to the speed monitor is made via the Mini-IO connector.



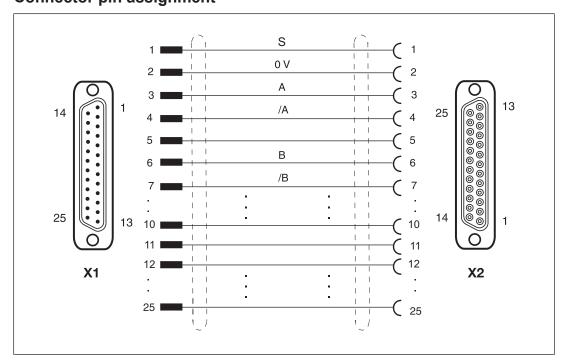
#### **CAUTION!**

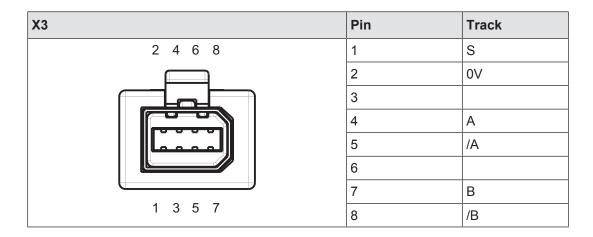
Communication errors may occur if the adapter cable is too long or there are any external sources of interference. Use an adapter cable that's less than 5 m in length. Lay the adapter cable separately from any potential sources of interference, such as drive cables leading to the motor, for example.

#### Connection

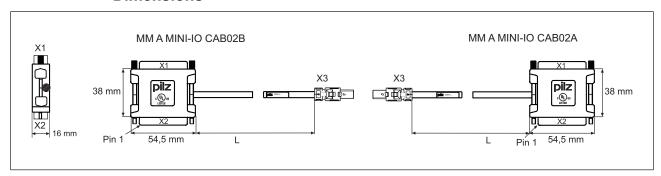


### Connector pin assignment





#### **Dimensions**



#### **Technical details**

General	772218	772219
Approvals	cULus Listed	cULus Listed
Electrical data	772218	772219
Insulation resistance	10 MOhm	10 MOhm
Environmental data	772218	772219
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 cab-		
inet)	IP54	IP54
Mechanical data	772218	772219
Plug-in connector X1	25-pin D-Sub male connector	25-pin D-Sub male connector

Mechanical data	772218	772219		
Form, plug-in connector X1	Straight	Straight		
Plug-in connector X2	25-pin D-Sub female connector	25-pin D-Sub female connector		
Form, plug-in connector X2	Straight	Straight		
Plug-in connector X3	8-pin Mini-IO male connector	8-pin Mini-IO male connector		
Design of plug-in connector X3	Straight	Straight		
Fixing screws	UNC 4-40 UNC 4-40			
Housing material X1	Nickel steel, tin-plated Nickel steel, tin-plated			
Housing material X2	Nickel steel, tin-plated  Nickel steel, tin-plated  Nickel steel, tin-plated			
Housing material X3	Plastic	Plastic		
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	2,5 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		
Min. bending radius (fixed perman-				
ently) K1	8 x Ø	8 x Ø		
Min. bending radius (moving) K1	10 x Ø	10 x Ø		
Cable insulation material K1	PUR	PUR		
Drag chain suitable K1	yes	yes		
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		
Approval cable K1	UL AWM-Style 20233	UL AWM-Style 20233		
Approval of plug-in connector X1	UL94 V-0	UL94 V-0		
Approval of plug-in connector X2	UL94 V-0	UL94 V-0		
Approval of plug-in connector X3	UL94 V-0	UL94 V-0		
Material				
Housing	TPE-SEBS UL 94 HB	TPE-SEBS UL 94 HB		

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Mechanical data	772218	772219
Dimensions		
Height	38 mm	38 mm
Width	54,5 mm	54,5 mm
Depth	16 mm	16 mm
Weight	134 g	134 g

## **Order reference**

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
MM A MINI-IO CAB02A 2.5m	2.5 m	25-pin D-Sub male connector	25-pin D-Sub female con- nector	8-pin Mini-IO male connector	772 218
MM A MINI-IO CAB02B 2.5m	2.5 m	25-pin D-Sub male connector	25-pin D-Sub female con- nector	8-pin Mini-IO male connector	772 219

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