



Visualisation; Diagnostics

Easy to Configure

Programming IEC 61131-3

Rapid Installation

MM A MINI-IO CAB99

PILZ
THE SPIRIT OF SAFETY

► Accessories PNOZmulti

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SD means Secure Digital

Description

The connection cables MM A MINI-IO CAB99 are used to connect an incremental encoder or adapter 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. The signals and the braided shield for connecting the incremental encoder or adapter feature wires with crimp connectors. The cable cores are labelled.



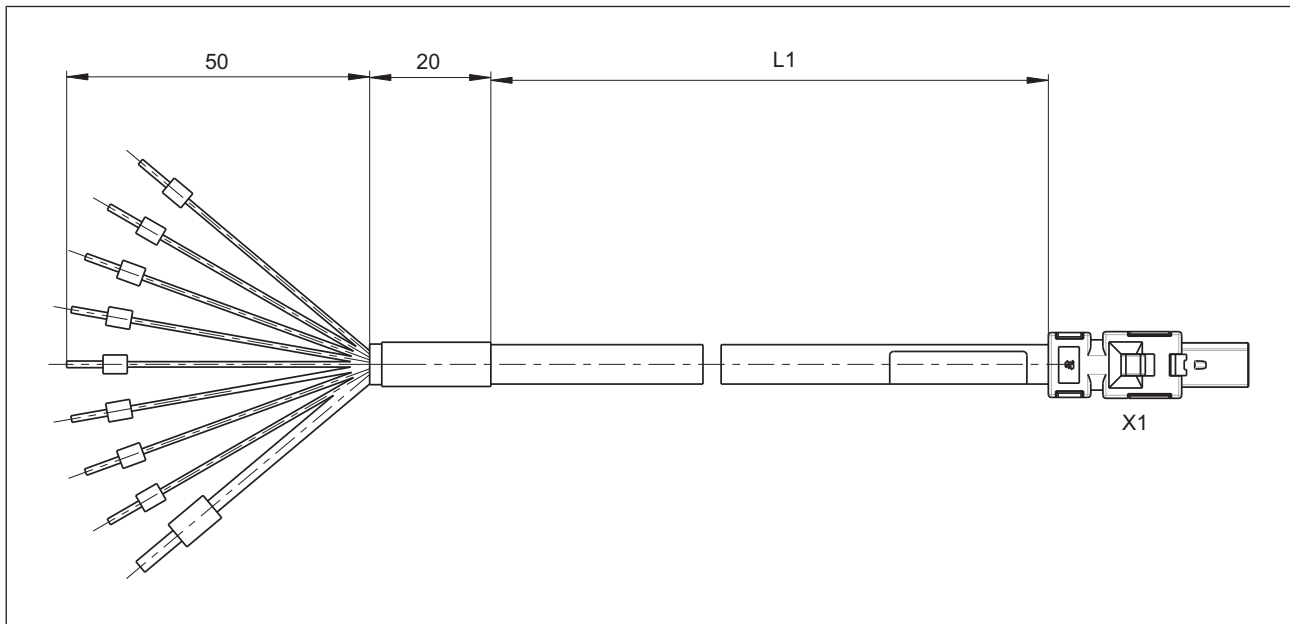
CAUTION!

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.

Connector pin assignment

X3	Pin	Wire colour	track
	1	White	S
	2	Brown	GND
	3	Green	Z
	4	Grey	A
	5	Pink	/A
	6	Yellow	/Z
	7	Blue	B
	8	Red	/B

Dimensions



Technical details

General	772200	772201	772202
Approvals	-	-	-
Electrical data	772200	772201	772202
Insulation resistance	20 MOhm	20 MOhm	20 MOhm
Environmental data	772200	772201	772202
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
Housing	IP20	IP20	IP20
Mounting area (e.g. control cabinet)	IP54	IP54	IP54
Mechanical data	772200	772201	772202
Plug-in connector X1	8-pin Mini-IO male connector	8-pin Mini-IO male connector	8-pin Mini-IO male connector
Form, plug-in connector X1	Straight	Straight	Straight
Housing material X1	PBT	PBT	PBT
Material of contact surface X1	Au	Au	Au

Mechanical data	772200	772201	772202
Mating cycles X1	1500	1500	1500
Cable length L1	1,5 m	2,5 m	5 m
Cable length tolerance K1	+/- 0,15 m	+/- 0,15 m	+/- 0,15 m
Colour of external cable insulation K1	Green, similar to RAL6018	Green, similar to RAL6018	Green, similar to RAL6018
Cable insulation material K1	PUR	PUR	PUR
Drag chain suitable K1	yes	yes	yes
Min. bending radius (fixed permanently) K1	8 x Ø	8 x Ø	8 x Ø
Min. bending radius (moving) K1	10 x Ø	10 x Ø	10 x Ø
Cable diameter K1	5,8 mm	5,8 mm	5,8 mm
Max. cable diameter K1	6 mm	6 mm	6 mm
Conductor cross section K1	0,14 mm²	0,14 mm²	0,14 mm²
Shielding K1	yes	yes	yes
Wire layer separation K1	No	No	No
No. of wires K1	8	8	8
Approval cable K1	UL AWM-Style 20233	UL AWM-Style 20233	UL AWM-Style 20233
Approval of plug-in connector X1	UL94 V-0	UL94 V-0	UL94 V-0
Weight	95 g	155 g	305 g

Order references

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
MM A MINI-IO CAB99 1.5m	1.5 m	8-pin Mini-IO male connector			772 200
MM A MINI-IO CAB99 2.5m	2.5 m	8-pin Mini-IO male connector			772 201
MM A MINI-IO CAB99 5.0m	5 m	8-pin Mini-IO male connector			772 202

Accessories

Connector set

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
PNOZ msi S09	Connector set	9-pin D-Sub female connector	9-pin D-Sub female connector		773 870
PNOZ msi S15	Connector set	15-pin D-Sub male connector	15-pin D-Sub female connector		773 871
PNOZ msi S25	Connector set	25-pin D-Sub male connector	25-pin D-Sub female connector		773 872

Junction box

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
PNOZ msi b1 Box 9p	Junction box	9-pin D-Sub female connector	9-pin D-Sub female connector	9-pin D-Sub male connector	773 882
PNOZ msi b1 Box 15p	Junction box	25-pin D-Sub female connector	25-pin D-Sub female connector	25-pin D-Sub male connector	773 880
PNOZ msi b1 Box 25p	Junction box	25-pin D-Sub female connector	25-pin D-Sub female connector	25-pin D-Sub male connector	773 883

Connection box

Product type	Features	Order no.
PNOZ msi b4 Box	Connection box	773 845

► Support

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Energy
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