

System cables and adapters for PCD1/PCD2/PCD3 Series

0	Index	
0.1	Document History	0-2
0.2	Brands and trademarks	0-2
1	Modular concept of the I/O level	
1.1	The modular concept offers optimum adaptability	1-1
2	System cables	
2.1	System cables with I/O module connections to the Saia PCD.....	2-1
2.1.1	PCD2.K221 and PCD2.K223 cables.....	2-2
2.1.2	PCD2.K231 and PCD2.K232 cables.....	2-3
2.1.3	PCD2.K241 and PCD2.K242 cables.....	2-4
2.1.4	PCD2.K261 and PCD2.K263 cables.....	2-5
2.1.5	PCD2.K271 and PCD2.K273 cables.....	2-6
2.1.6	PCD2.K281 and PCD2.K283 cables.....	2-7
2.1.7	PCD3.K261 and PCD3.K263 cables.....	2-8
2.1.8	PCD3.K281 and PCD3.K283 cables.....	2-9
2.1.9	PCD3.K800 cables.....	2-10
2.1.10	PCD3.K810 cables	2-11
2.1.11	PCD3.K860 cables.....	2-12
2.1.12	PCD3.K861 cables	2-13
3	System adapters	
3.1	Ribbon/screw terminal adapters (external terminal blocks)	3-1
3.1.1	PCD2.K510 and PCD2.K511 adapters	3-2
3.1.2	PCD2.K520 and PCD2.K521 adapters	3-3
3.1.3	PCD2.K525 adapter	3-4
3.1.4	PCD2.K551 relay interface with relay type G2RL-1	3-5
3.1.5	PCD2.K552 relay interface with manual control	3-6
A	Appendix	
A.1	Icons	A-1
A.2	Dimensioned drawings.....	A-2
A.2.1	PCD2.K510 and PCD2.K511	A-2
A.2.2	PCD2.K520 and PCD2.K521	A-2
A.2.3	PCD2.K525	A-2
A.2.4	PCD2.K551	A-3
A.2.5	PCD2.K552	A-3
A.3	Order codes	A-4
A.4	Contact	A-6

0.1 Document History

Date	Version	Changes	Remarks
EN01	2000-07-21	old 1.2.4	Relay interface with relay type G2RL-1
EN02	2004-02-28	old 1.2.4	Jumper on adapter PCD2.K525
EN03	2008-12-23	complete	added the cables PCD3.K8xx and the adaptor PCD2.K552
EN03	2009-03-03	Ch 3	K520 and K525, pin 29/31 on L/+
EN04	2011-06-20 2012-02-17	Ch 3	Ribbon connector K525: 34-pole, not 16-pole PCD2.K525: No Sink Operation for inputs
EN05	2013-11-15	-	Change of logo
En06	2014-05-15	Ch 2	New cables PCD3.K26x and PCD3.K28x

0.2 Brands and trademarks

Saia PCD® and Saia PG5®
are registered trademarks of Saia-Burgess Controls AG.

Technical modifications are based on the current state-of-the-art technology.

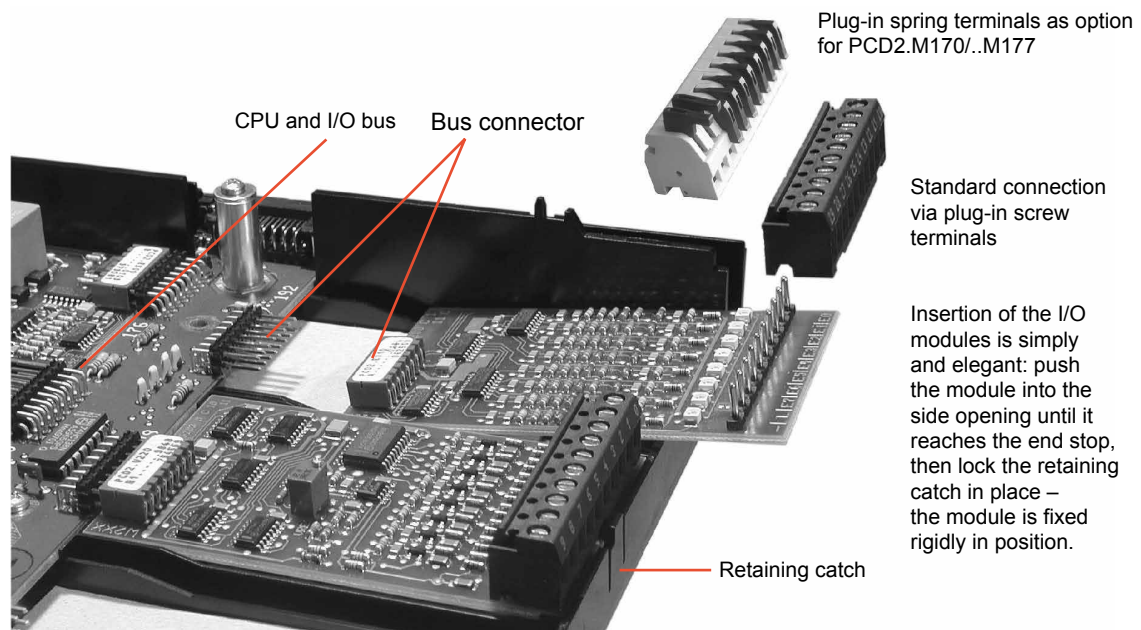
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1 Modular concept of the I/O level

On the I/O bus, a large number of modules can be plugged into the sockets as required.

- Digital I/O modules
- Analogue I/O modules
- Multifunctional I/O modules
- Counting, measuring and motion control modules
- Axis control modules
- Modem modules



1.1 The modular concept offers optimum adaptability

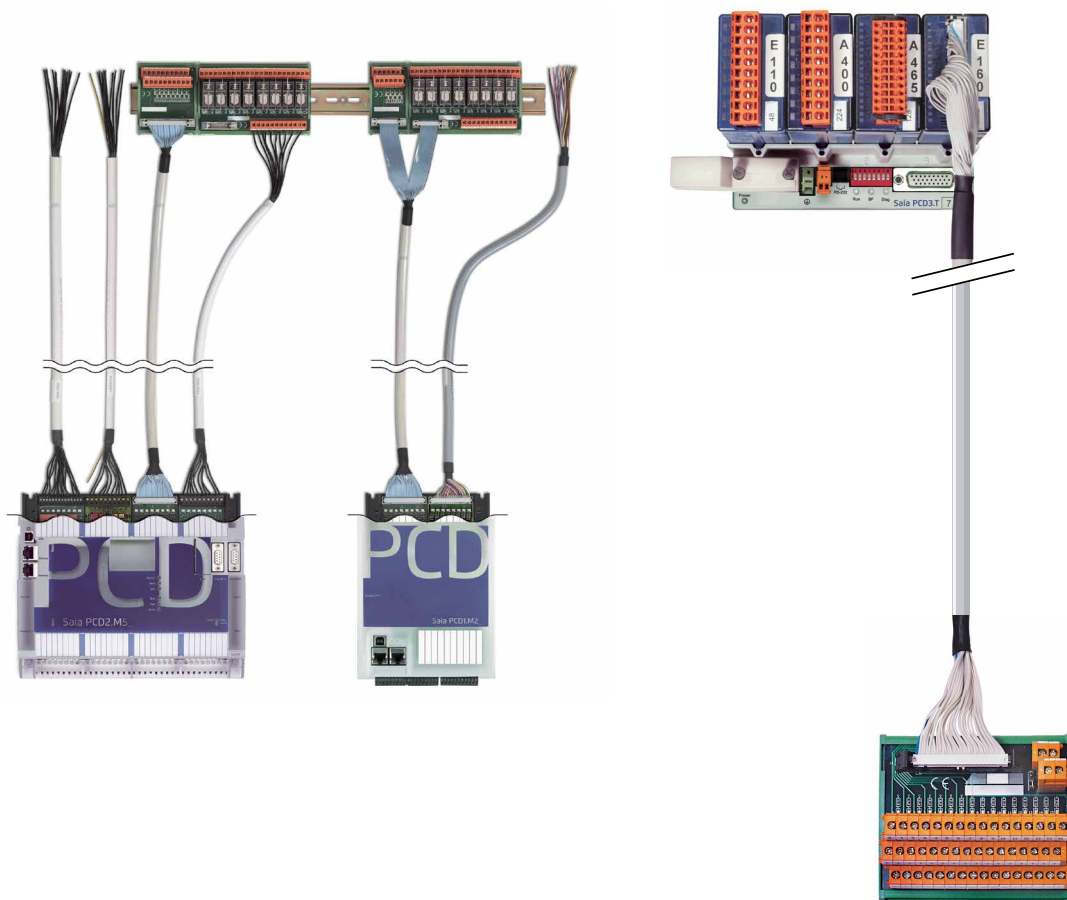
- **Economic:** The modular structure means that it is only necessary to include (and pay for) those functions that are actually required for a specific application.
- **Flexible:** All modules of the I/O level can be plugged onto any preferred point on the bus and are easy to exchange. Insertion of the I/O modules is simple and elegant: Push the module into the side opening until it reaches the end stop and lock the retaining catch in place.
- **Time saved in electrical wiring:** Due to plug-in screw terminals, spring terminals or ready-made cable variants and ribbon terminal adapters.
- **Functional security:** Guaranteed by their robust design and excellent reliability (average field failure rate FFR >10⁶ hours).

2 System cables

2.1 System cables with I/O module connections to the Saia PCD

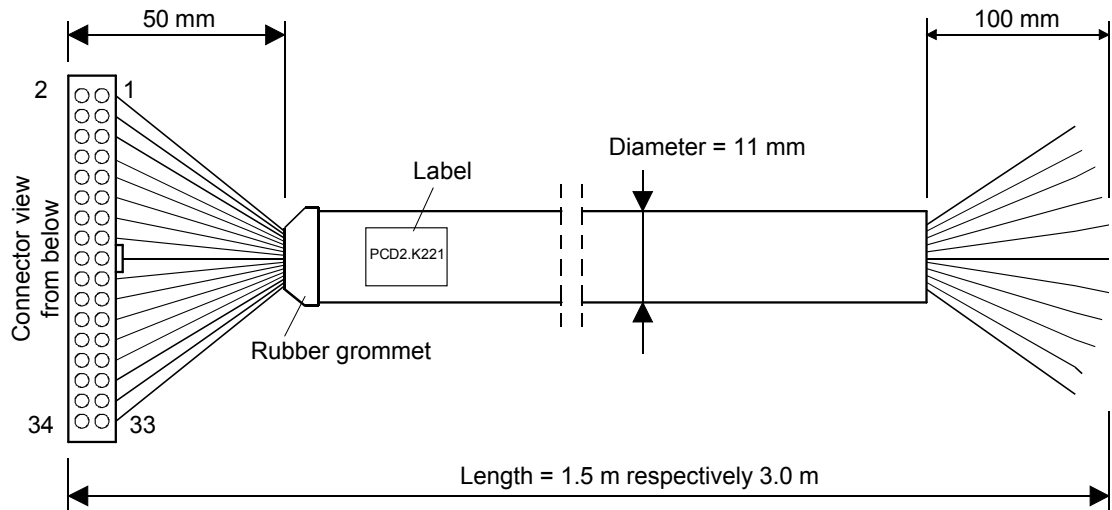
The route to easy, fast connection is via these preconfigured cables. The connector is ready mounted at the PCD end of the cable, so it just has to be plugged in to connect. At the process end there are ribbon connectors to the terminal adapters or the relay interface, or 0.5 mm² or 0.25 mm² strands, numbered and colour-coded.

2



2.1.1 PCD2.K221 and PCD2.K223 cables

This cable is designed for the digital I/O modules PCD2/3.E160/161 and PCD2/3.A460 with 16 inputs / outputs, with a 34-pole ribbon connector.



2

Sheathed, round cable with 32 strands of 0.25 mm² (AWG 24)

PCD end: 34-pole ribbon connector,

Free end: 10 cm unsheathed, colour-coded strands

Colour coding and pin configuration:

Pin	Colour	Pin	Colour	Pin	Colour	Pin	Colour
1	white	9	black	17	white/grey	25	white/black
2	brown	10	purple	18	grey/brown	26	brown/black
3	green	11	grey/pink	19	white/pink	27	grey/green
4	yellow	12	red/blue	20	pink/brown	28	yellow/grey
5	grey	13	white/green	21	white/blue	29	pink/green
6	pink	14	brown/green	22	brown/blue	30	yellow/pink
7	blue	15	white/yellow	23	white/red	31	green/blue
8	red	16	yellow/brown	24	brown/red	32	yellow/blue

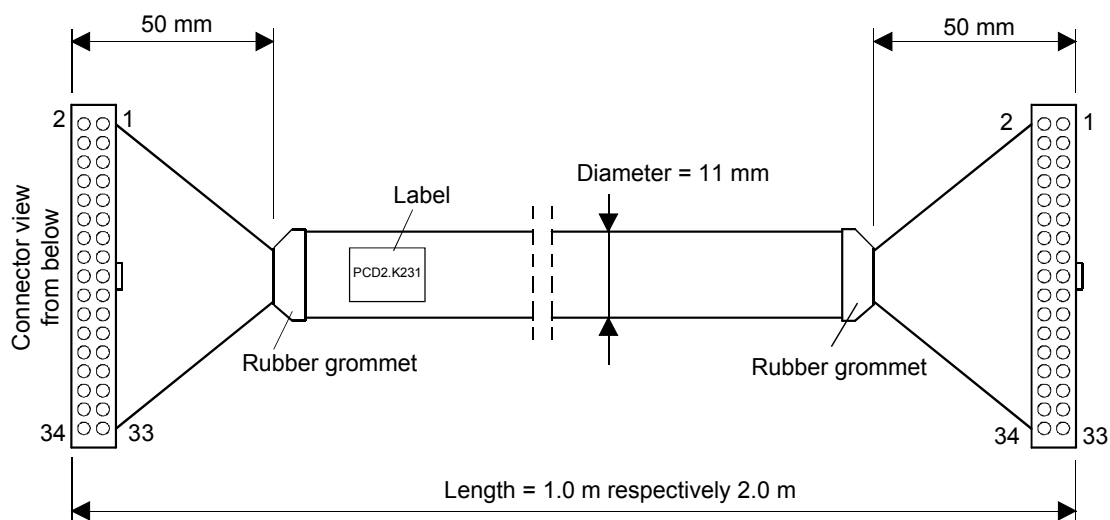
The cables are supplied in two lengths:

Type and item-number: PCD2.K221 Length 1.5 m

Type and item-number: PCD2.K223 Length 3.0 m

2.1.2 PCD2.K231 and PCD2.K232 cables

This cable is designed for the digital I/O modules PCD2/3.E160/161 and PCD2/3.A460 with 16 inputs / outputs, with a 34-pole ribbon connector.



Unsheathed round cable with 34 strands of 0.09 mm².
34-pole ribbon connector at both ends.

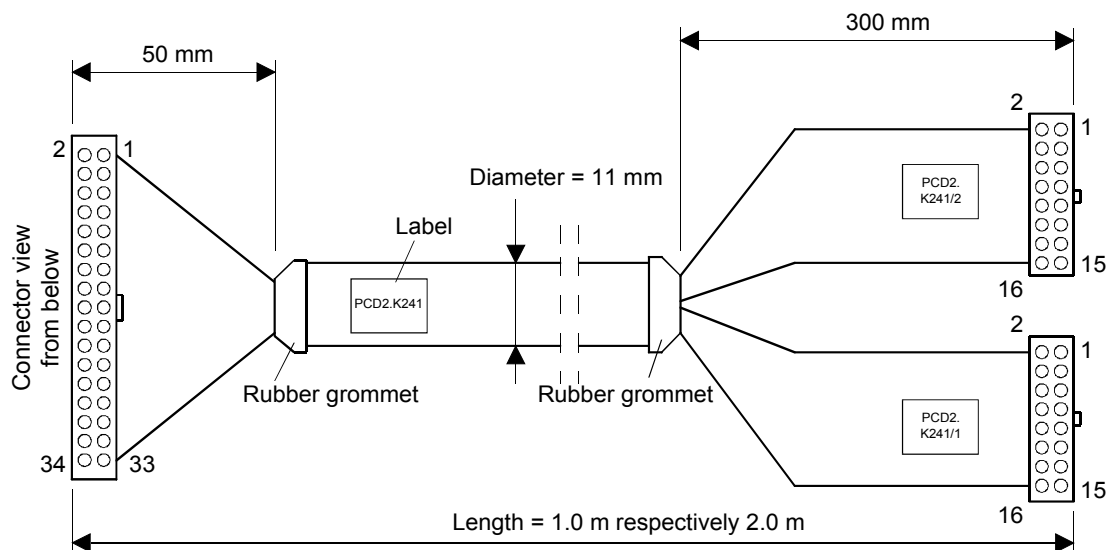
The cables are supplied in two lengths:

Type and item-number: PCD2.K231 Length 1.0 m

Type and item-number: PCD2.K232 Length 2.0 m

2.1.3 PCD2.K241 and PCD2.K242 cables

This cable is designed for the digital I/O modules PCD2/3.E160/161 and PCD2/3.A460 with 16 inputs / outputs, with a 34-pole ribbon connector.



Sheathed round cable with 34 strands of 0.09 mm².

PCD end: 34-pole ribbon connector,

Process end: Divided into 2 branches, each 300 mm in length, leading to 16-pole ribbon connectors.

The cables are supplied in two lengths:

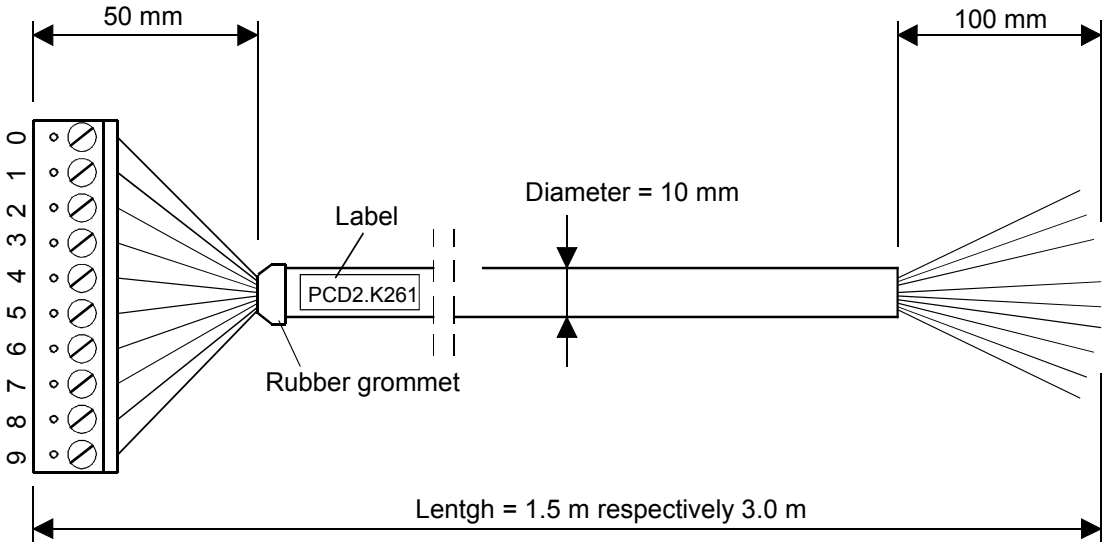
Type and item-number: PCD2.K241 Length 1.0 m

Type and item-number: PCD2.K242 Length 2.0 m

2.1.4 PCD2.K261 and PCD2.K263 cables

This cable is designed for digital I/O modules with 10-pole pluggable screw terminal block, i.e. for the modules PCD2.E1xx, E500, E6xx, A200, A220, A300, A4xx and B100. (The existing terminal block should be removed).

2



Screw terminal	Cable
0	10
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
	11

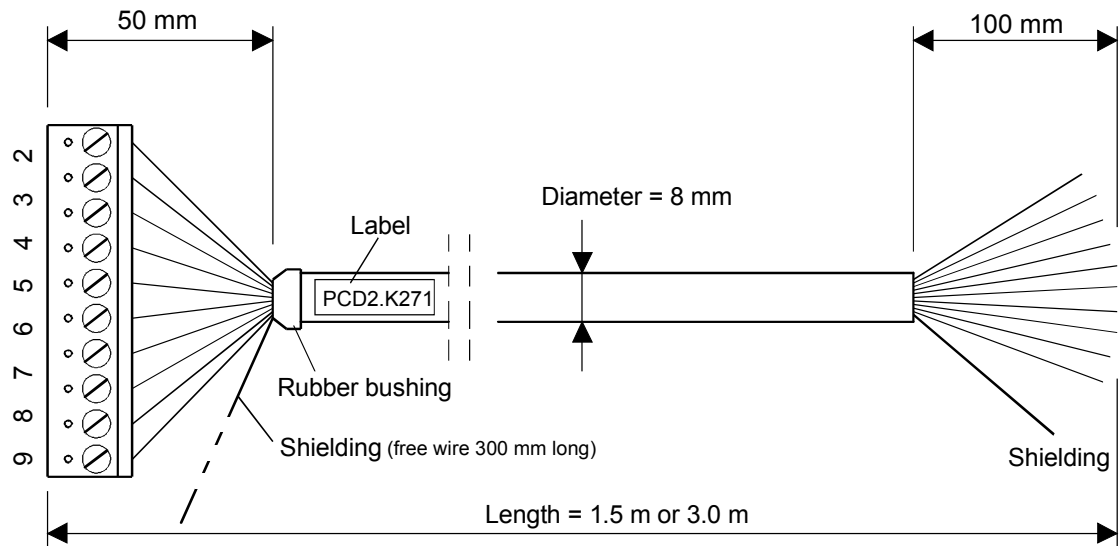
Screw terminal	Cable
0	10
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
	11...

Sheathed, round cable with 10 strands of 0.5 mm².
PCD end: 10-pole pluggable screw terminal block,
Free end: 10 cm with numbered strands

The cables are supplied in two lengths:
Type and item-number: PCD2.K261 Length 1.5 m
Type and item-number: PCD2.K263 Length 3.0 m

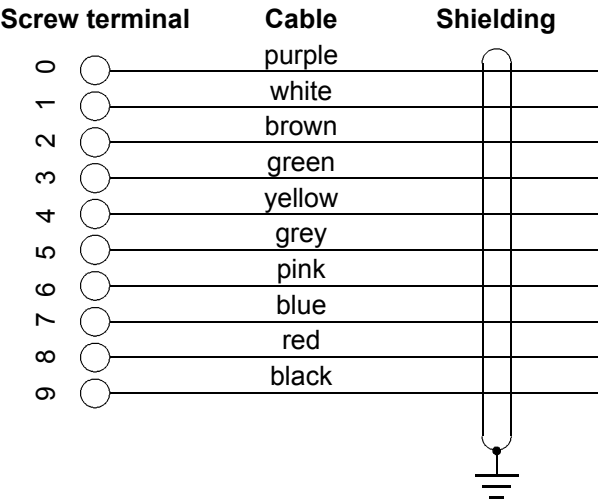
2.1.5 PCD2.K271 and PCD2.K273 cables

This shielded cable is designed for analogue I/O modules and for H modules with 10-pole pluggable screw terminal block. (The existing terminal block should be removed).



2

Screw terminal	Cable
0	purple
1	white
2	brown
3	green
4	yellow
5	grey
6	pink
7	blue
8	red
9	black

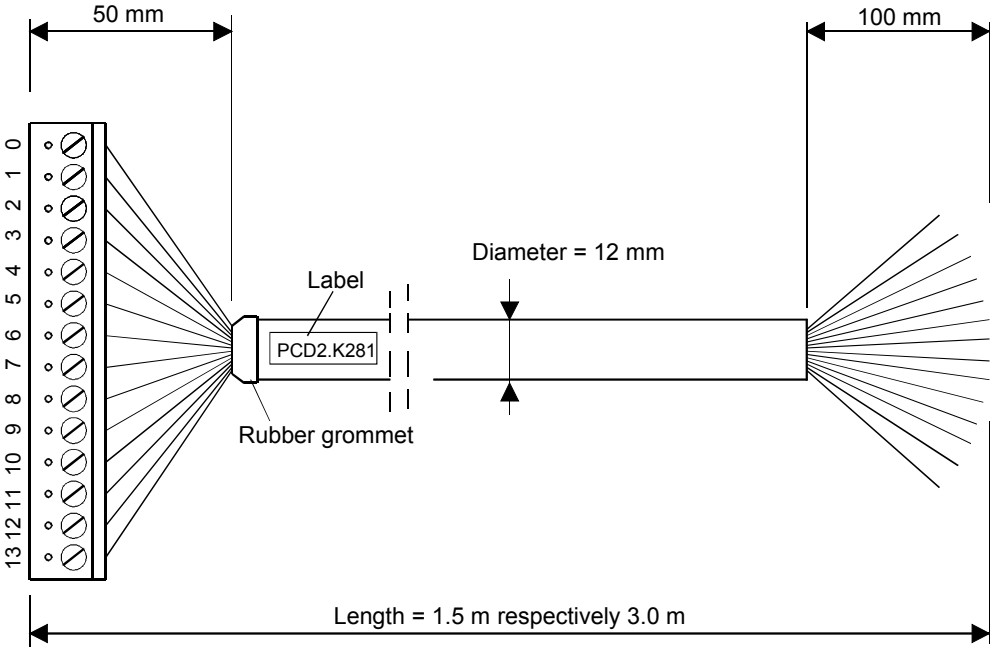


Sheathed, shielded cable with 10 strands of 0.25 mm².
The shielding is drawn out at both ends.
PCD end: 10-pole pluggable screw terminal block,
Free end: 10 cm strands, colour-coded

The cables are supplied in two lengths:
Type and item-number: PCD2.K271 Length 1.5 m
Type and item-number: PCD2.K273 Length 3.0 m

2.1.6 PCD2.K281 and PCD2.K283 cables

This cable is designed for the PCD2.A250 relay output module as well as the analogue modules PCD2.W3x5, PCD2.W6x5 and PCD2.W525 with 14-pole plug-in screw terminal block. (The existing terminal block should be removed).



2

Screw terminal	Cable
0	14
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
	15

Screw terminal	Cable
0	14
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
	15...

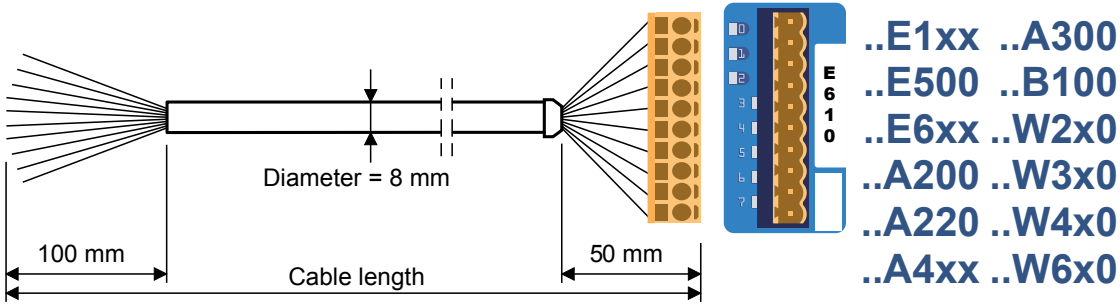
Sheathed, round cable with 14 strands of 0.5 mm².
PCD end: 14-pole pluggable screw terminal block,
Free end: 10 cm with numbered strands

The cables are supplied in two lengths:
Type and item-number: PCD2.K281 Length 1.5 m
Type and item-number: PCD2.K283 Length 3.0 m

2.1.7 PCD3.K261 and PCD3.K263 cables

This cable is designed for digital I/O modules with 10-pole pluggable screw terminal block, i.e. for the modules PCD3.E1xx, E500, E6xx, A200, A220, A300, A4xx and B100. (The existing terminal block should be removed).

2



Screw terminal	Cable
0	10
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
	11

Screw terminal	Cable
0	10
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
	11...

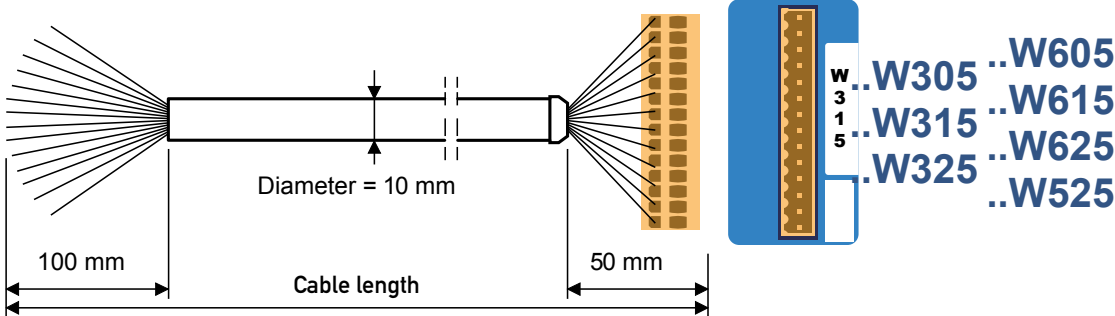
Sheathed, round cable with 10 strands of 0.5 mm².
PCD end: 10-pole pluggable screw terminal block,
Free end: 10 cm with numbered strands

The cables are supplied in two lengths:
Type and item-number: PCD3.K261 Length 1.5 m
Type and item-number: PCD3.K263 Length 3.0 m

2.1.8 PCD3.K281 and PCD3.K283 cables

This cable is designed for the analogue modules PCD3.W3x5, PCD3.W6x5 and PCD3.W525 with 14-pole plug-in screw terminal block. (The existing terminal block should be removed).

2



Screw terminal	Cable
0	14
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
	15

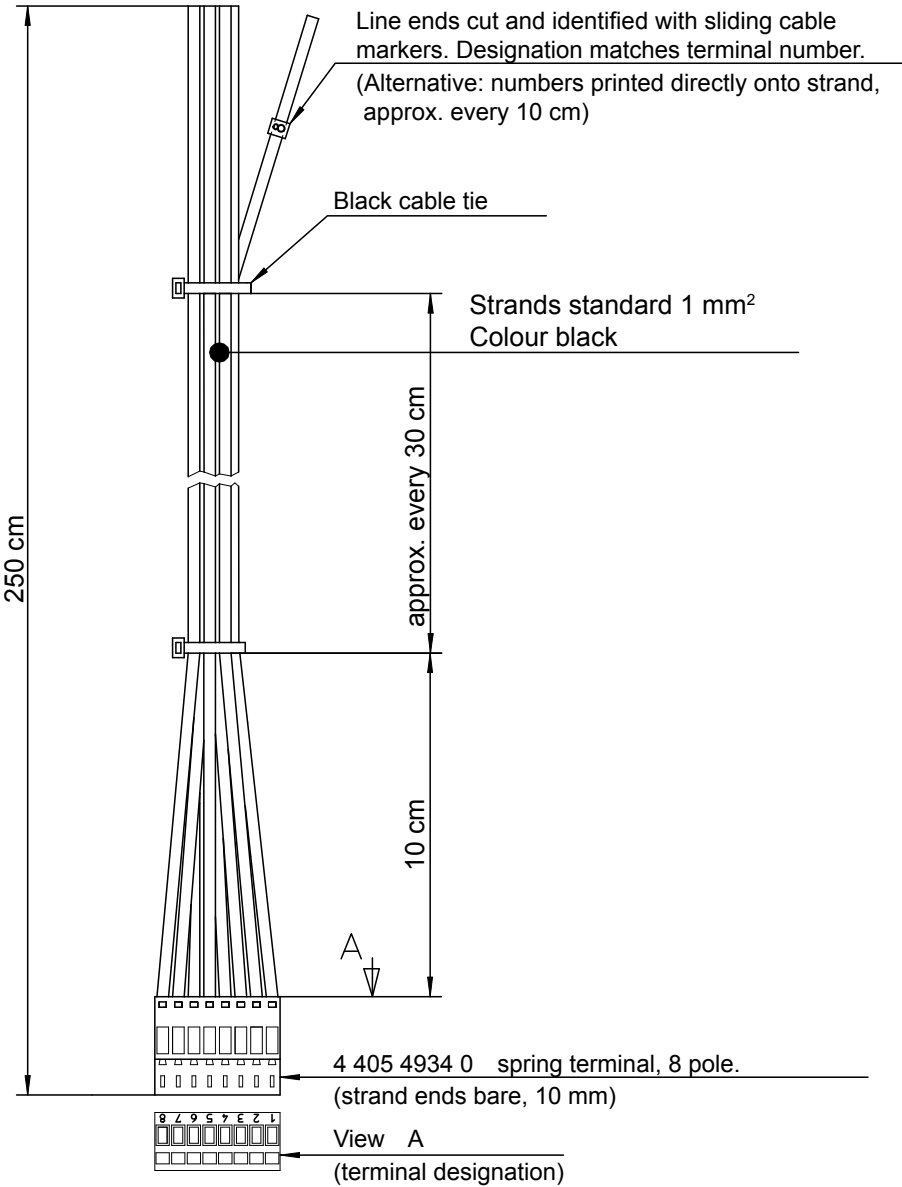
Screw terminal	Cable
0	14
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
	15...

Sheathed, round cable with 14 strands of 0.5 mm².
PCD end: 14-pole pluggable screw terminal block,
Free end: 10 cm with numbered strands

The cables are supplied in two lengths:
Type and item-number: PCD3.K281 Length 1.5 m
Type and item-number: PCD3.K283 Length 3.0 m

2.1.9 PCD3.K800 cables

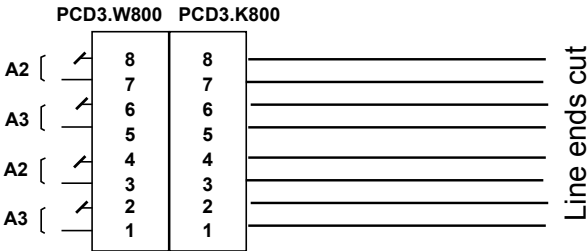
This cable is designed for the manual control modules PCD3.W800 with 4 analogue output channels.



2

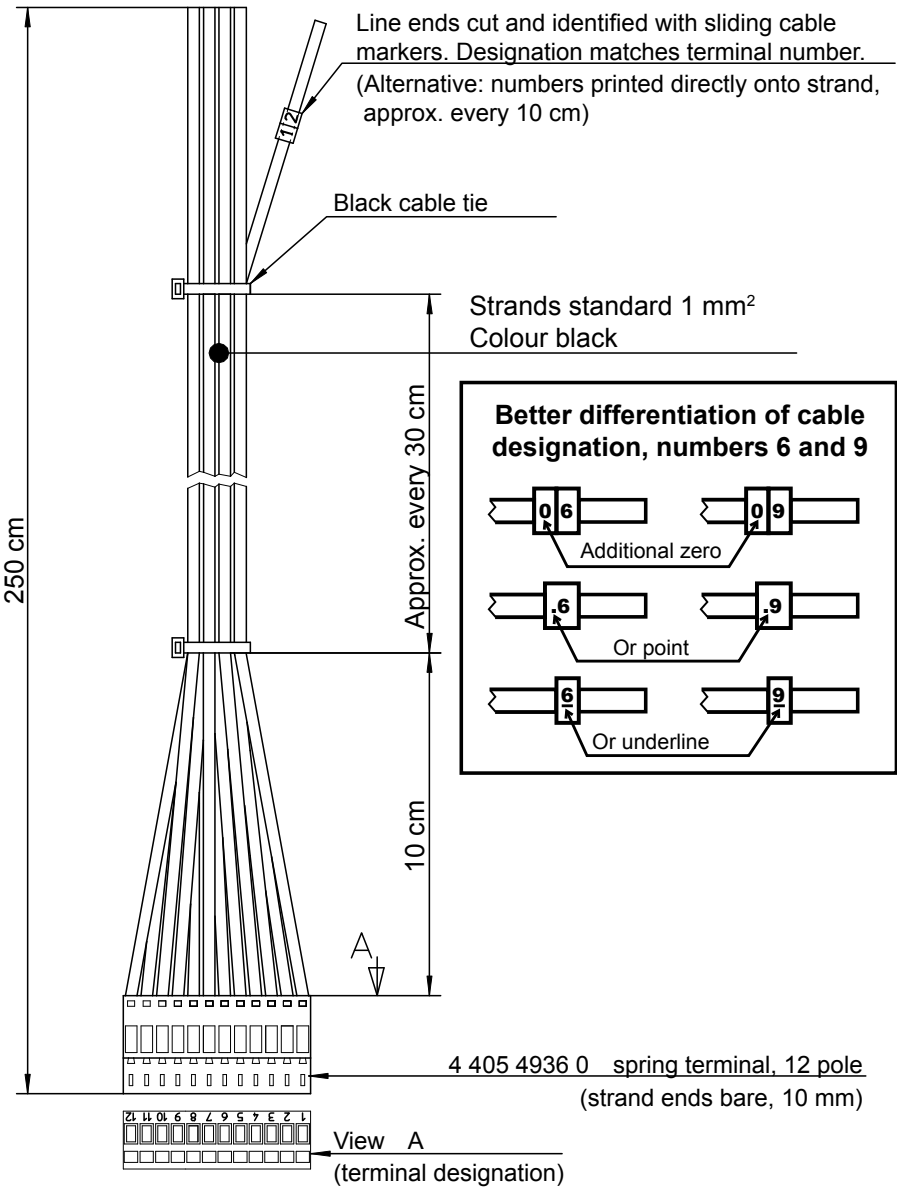
8 strands held together with cable ties, each strand 1.0 mm², 2.5 m long. PCD side: 8 pole, plug-in spring terminal block, type J. Process side: free strands, numbered.

Connection configuration PCD3.K800:



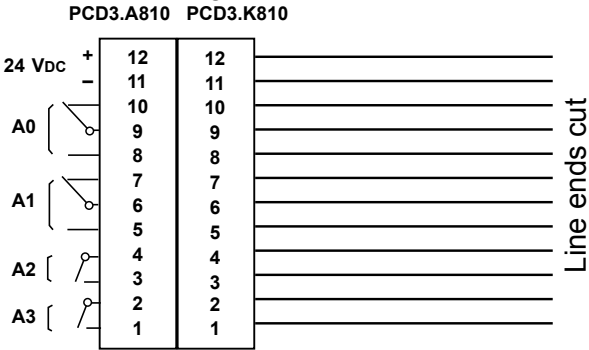
2.1.10 PCD3.K810 cables

This cable is designed for the manual control modules PCD3.A810 with 4 relay out-puts



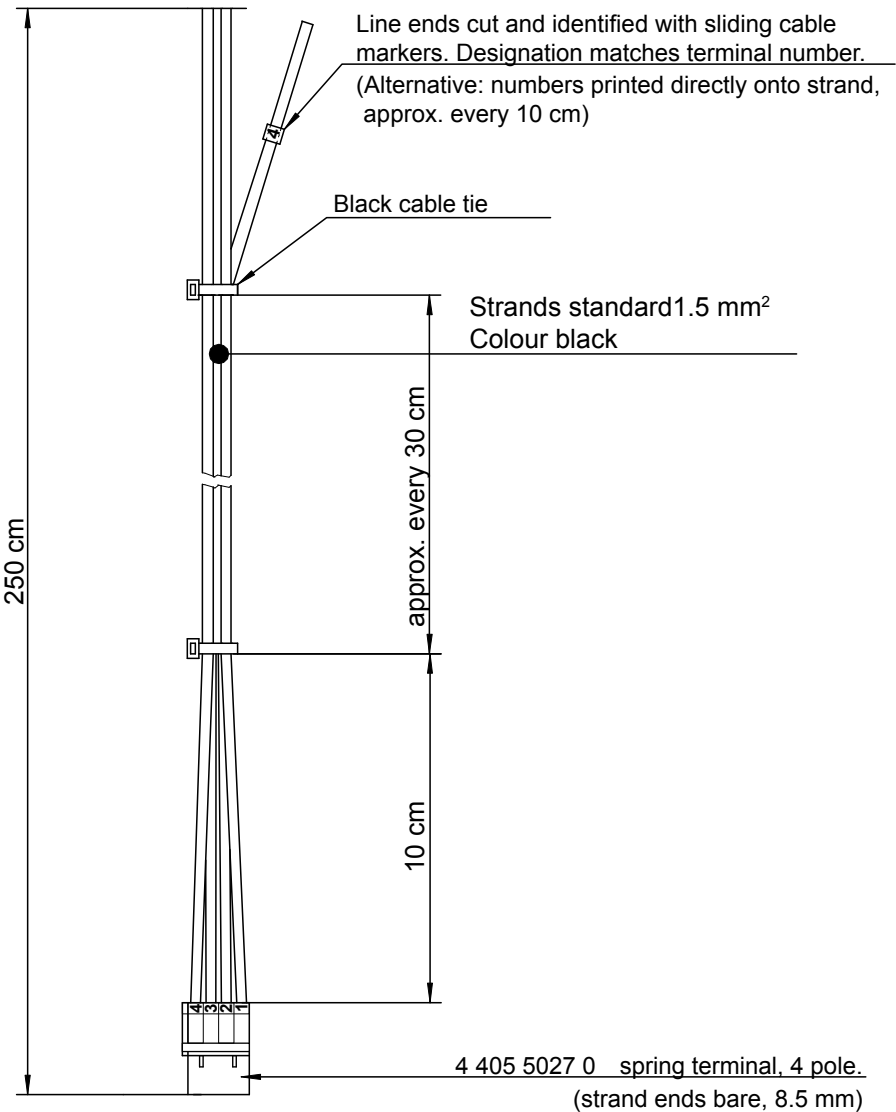
12 strands held together with cable ties, each strand 1.0 mm², 2.5 m long. PCD side: 12 pole, plug-in spring terminal block, type F. Process side: free strands, numbered.

Connection configuration PCD3.K800:



2.1.11 PCD3.K860 cables

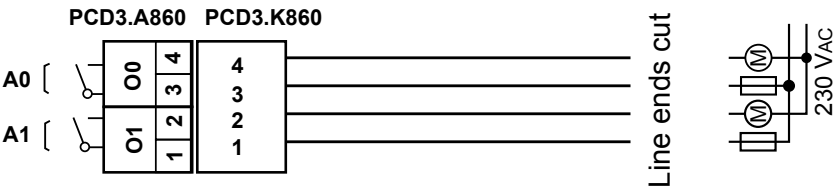
This cable is designed for the Light and Shade module, PCD3.A860.



2

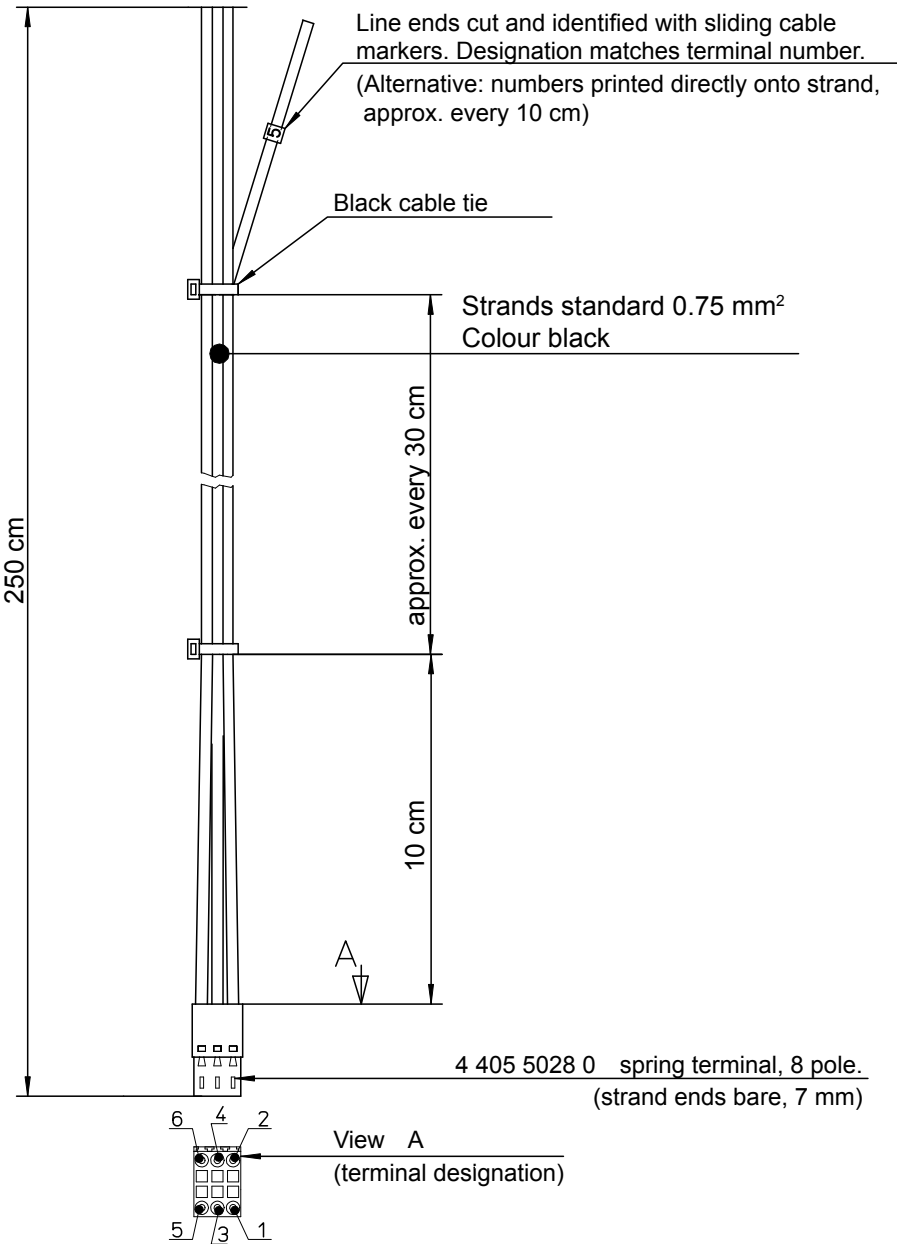
4 strands held together with cable ties, each strand 1.5 mm², 2.5 m long. PCD side: 4 pole, plug-in spring terminal block, type G. Process side: free strands, numbered.

Connection configuration PCD3.K860:



2.1.12 PCD3.K861 cables

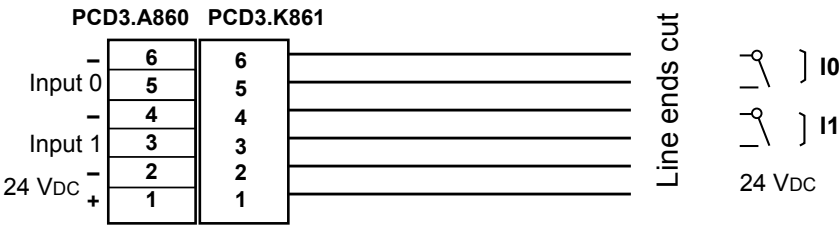
This cable is designed for the Light and Shade module, PCD3.A860.



2

6 strands held together with cable ties, each strand 0.75 mm², 2.5 m long. PCD side: 6 pole, plug-in spring terminal block, type H. Process side: free strands, numbered.

Connection configuration PCD3.K861:

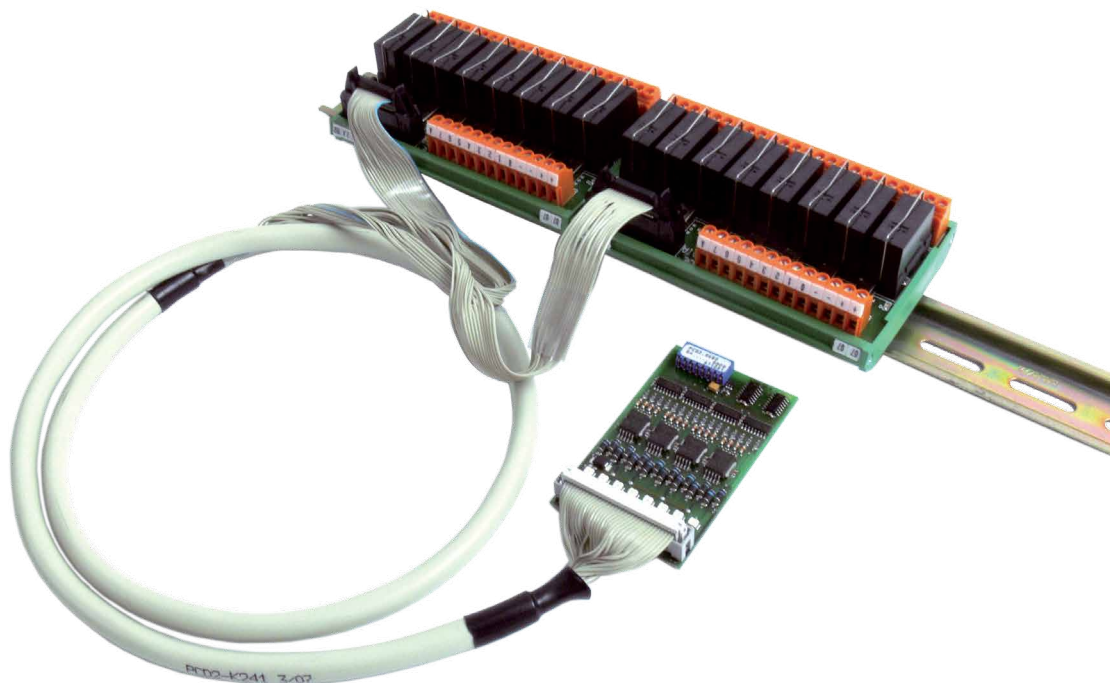


3 System adapters

3.1 Ribbon/screw terminal adapters (external terminal blocks)

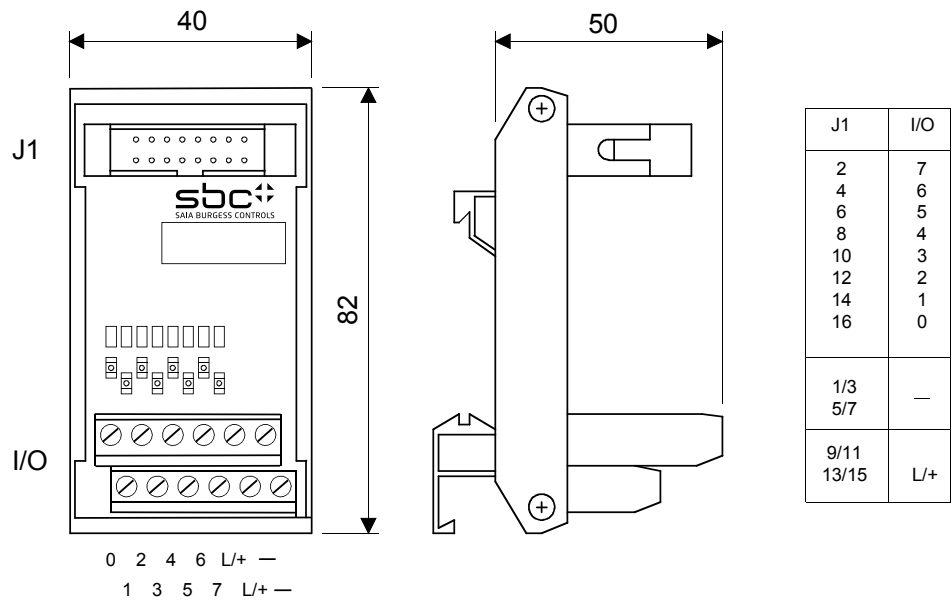
Terminal blocks for mounting on DIN rails at the output from the switching cabinet, to connect Saia PCD I/O modules to the process. The cables configured for this are described in the previous section «System cables with I/O module connections to the Saia PCD».

3



3.1.1 PCD2.K510 and PCD2.K511 adapters

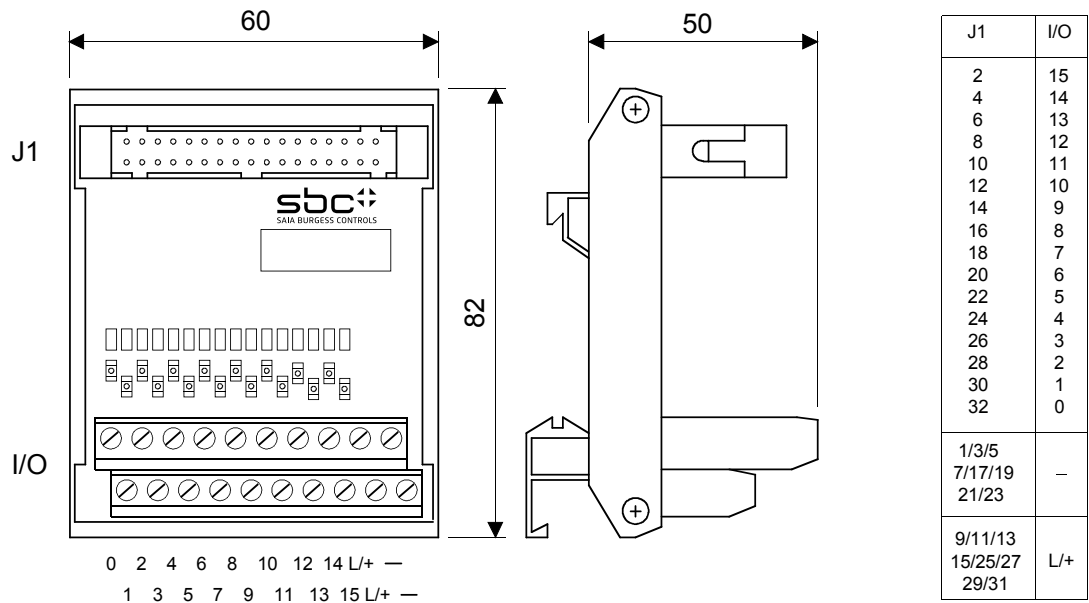
Ribbon/screw terminal adapters for 8 inputs or 8 outputs.



PCD end: 16-pole ribbon connector
Process end: 12 screw terminals 0.5–1.5 mm²
Type and item-number: PCD2.K510 without LEDs
Type and item-number: PCD2.K511 with LEDs – **for source operation only**

3.1.2 PCD2.K520 and PCD2.K521 adapters

Ribbon/screw terminal adapters for 16 inputs or 16 outputs.

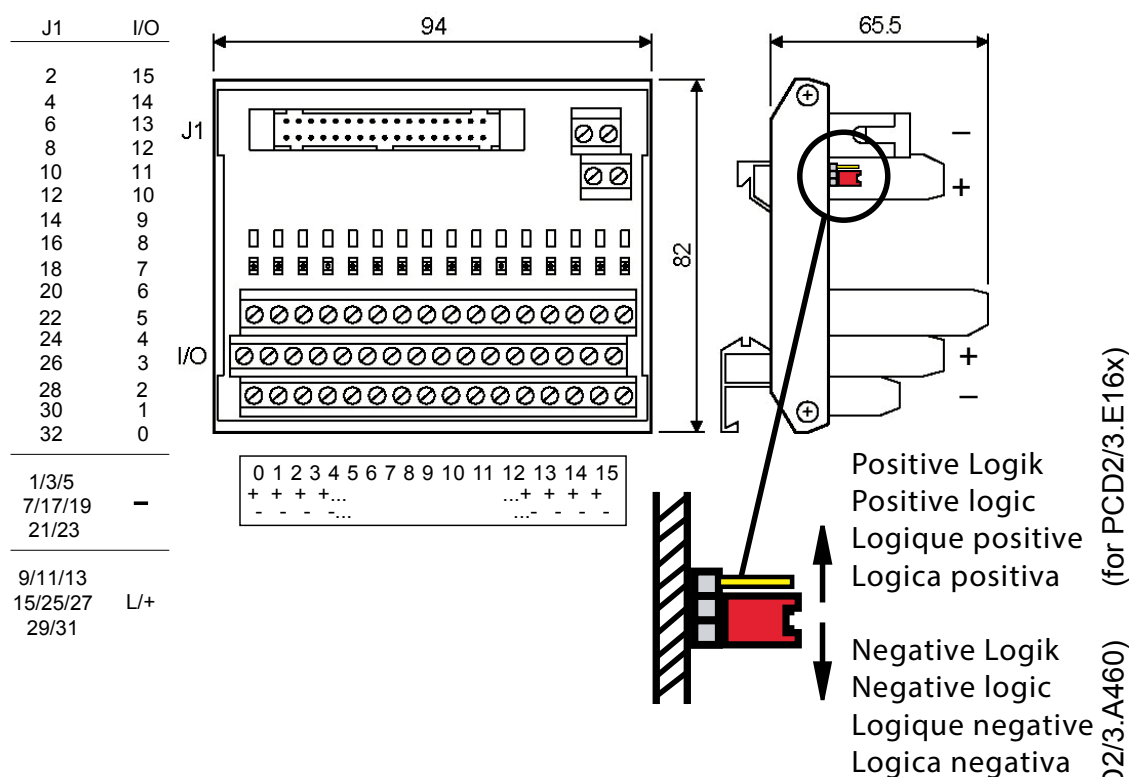


3

- PCD end: 34-pole ribbon connector
Process end: 20 screw terminals 0.5–1.5 mm²
Type and item-number: PCD2.K520 without LEDs
Type and item-number: PCD2.K521 with LEDs – **for source operation only**

3.1.3 PCD2.K525 adapter

Ribbon/screw terminal adapter for 16 inputs/outputs, with 3 × 16 screw terminals and LEDs



PCD end: 34-pole ribbon connector
 Process end: 3 × 16 screw terminals 0.5...1.5 mm²
 Type and item-number: PCD2.K525 with LEDs – **for source operation only**

Connection of PCD2/3.E160 and PCD2/3.E161

For the off connection of PCD2/3.E160 and PCD2/3.E161 the system cables PCD2.K231 (1 m) or PCD2.K232 (2 m) «chapt. 2.1.2» are used.

For **Source Operation (positive logic)**, the «–» of the Supply must be connected to the «–» of the screw-terminal. The «+» must not be connected. The jumper JP1 has to be plugged to the position «Positive Logic».



Sink Operation (negative logic) is not supported

Connection of PCD2.A460

For the off connection of PCD2/3.A460 the system cables PCD2.K231 (1 m) or PCD2.K232 (2 m) chapt. 2.1.2 are used. The «+» and the «–» of the Supply must be connected to the «+» and the «–» of the screw-terminal.

The supply is only connected to the module when the Jumper JP1 is plugged to the position «Negative Logic»

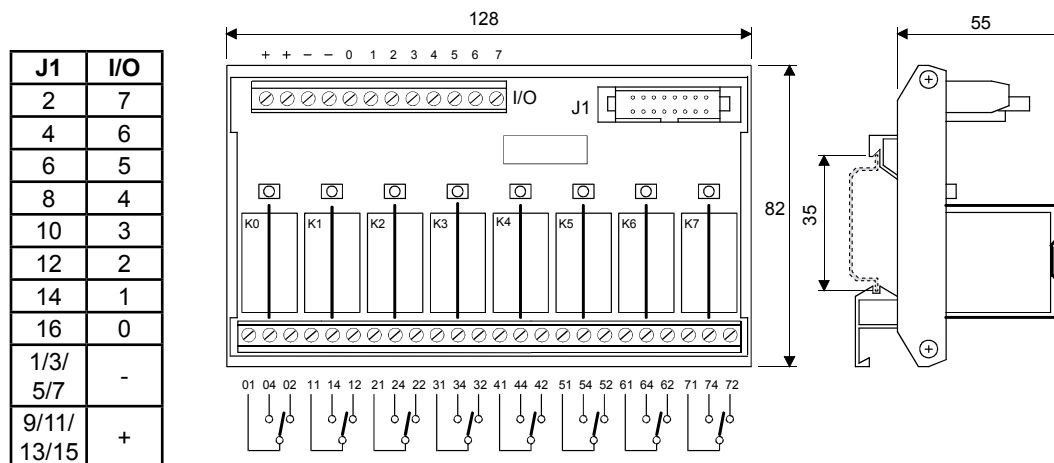


The supply is only connected to the module when the Jumper JP1 is plugged to the position «Negative Logic»

3.1.4 PCD2.K551 relay interface with relay type G2RL-1

Relay interface to PCD2/3.A460 with 8 plug-in relays. The logical state of the relay is displayed with an LED: Relay switched on LED on

Relay switched on	LED on
Relay switched off	LED off



PCD end: 16-pole ribbon connector I/O
(or 12 screw terminals J1)

Process end: 24 screw terminals 0.5–1.5 mm²

Data for relay type G2RL-1:

(extracted from manufacturer's data sheet)

Input voltage:	24 VDC
Input current:	31 mA
Max. switching voltage:	440 VAC / 300 VDC
Nominal current:	12 A
Max. load with $\cos\phi = 1$:	3000 VA (AC) / 360 W (DC)
Max. load with $\cos\phi = 0.4$:	1250 VA (AC) / 150 W (DC)
Mon. load:	100 mA / 5 VDC
Switch-on delay t_{on} :	max. 15 ms
Switch-off delay t_{off} :	max. 5 ms
Contact coil isolation:	5 kVAC
Isolation between contacts:	1 kVAC
Mech. lifetime (relays):	20×10^6 cycles
Electr. lifetime (relays):	50,000 cycles at 12 A/250 VAC, $\cos\phi = 1$
Max. switching cycles, mechanical:	18,000 cycles/hour
electrical:	1800 cycles/hour at nominal load
Ambient temperature:	-40°C... + 85°C

Type and item number:

Relay interface:	PCD2.K551 with 8 G2RL-1 relays and LEDs	
Relays:	G2RL-1, 24DC (OMRON)	91E025849
Spring clip:	EMR/15	91E025914

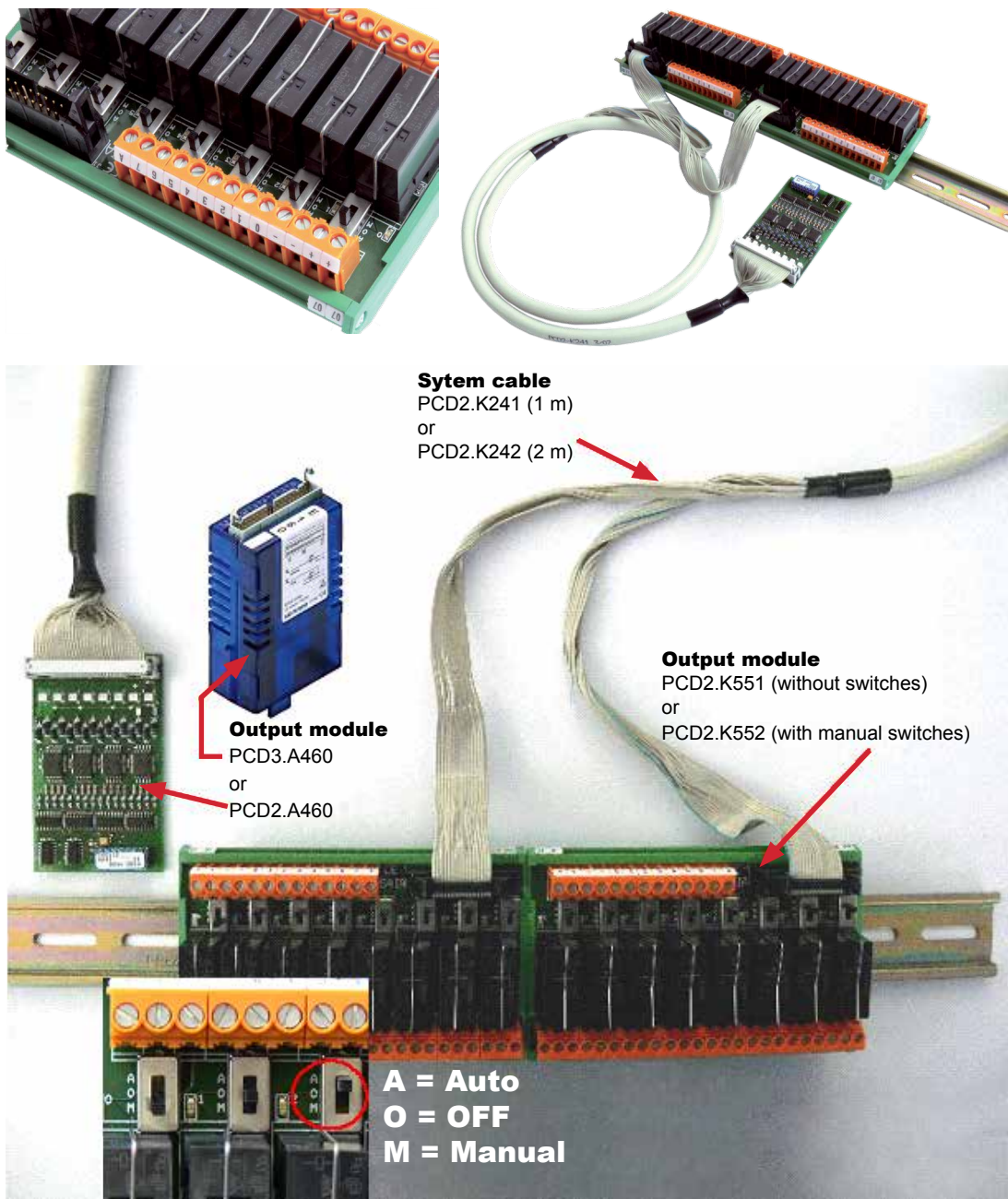
3.1.5 PCD2.K552 relay interface with manual control

Increasingly, building automation applications require the necessary manual control and coupler level in automation stations. Saia Burgess Controls has decided to take this requirement into account in its new relay interface module, the PCD2.K552.

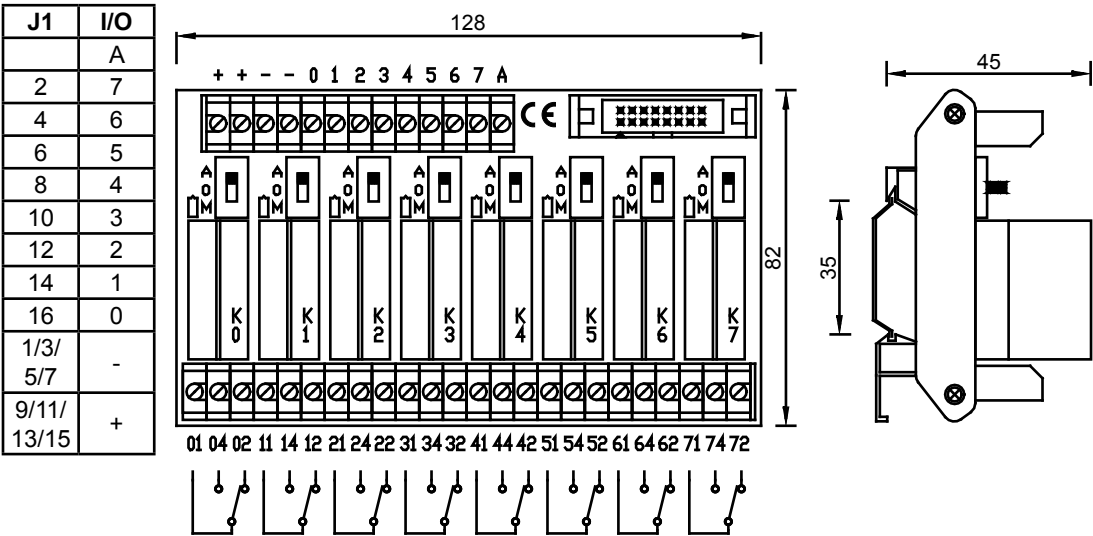
With relay interface modules, it is possible to override process outputs directly.

Features

- Manual control function at outputs
- Easy connection to a 16-point output module (PCD1, PCD2 or PCD3) via prefabricated cable
- Direct acknowledgement of manual mode (Switch position feedback) to automation station via a common output A
- Also suitable for two-stage functions



PCD2.K552 relay interface with manual control

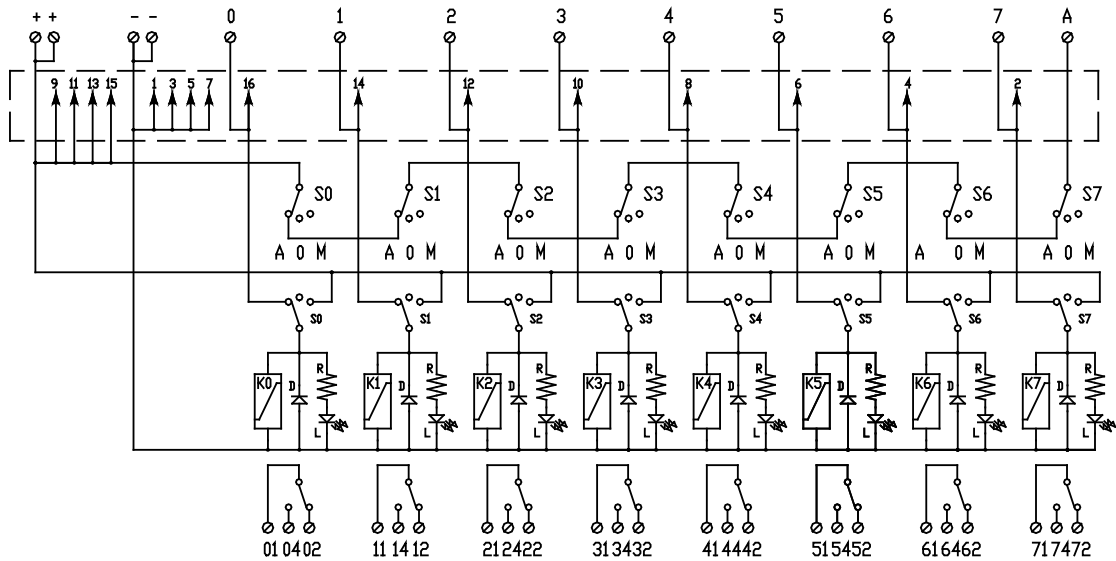


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Relay interface to PCD2/3.A460 with 8 plug-in relays. The logical state of the relay is displayed with an LED:

Relay switched on	LED on
Relay switched off	LED off

Connection configuration PCD2.K552:



PCD end: 16-pole ribbon connector I/O
(or 12 screw terminals J1)

Process end: 24 screw terminals 0.5–1.5 mm²

Data for relay type G2RL-1:

(extracted from manufacturer's data sheet)

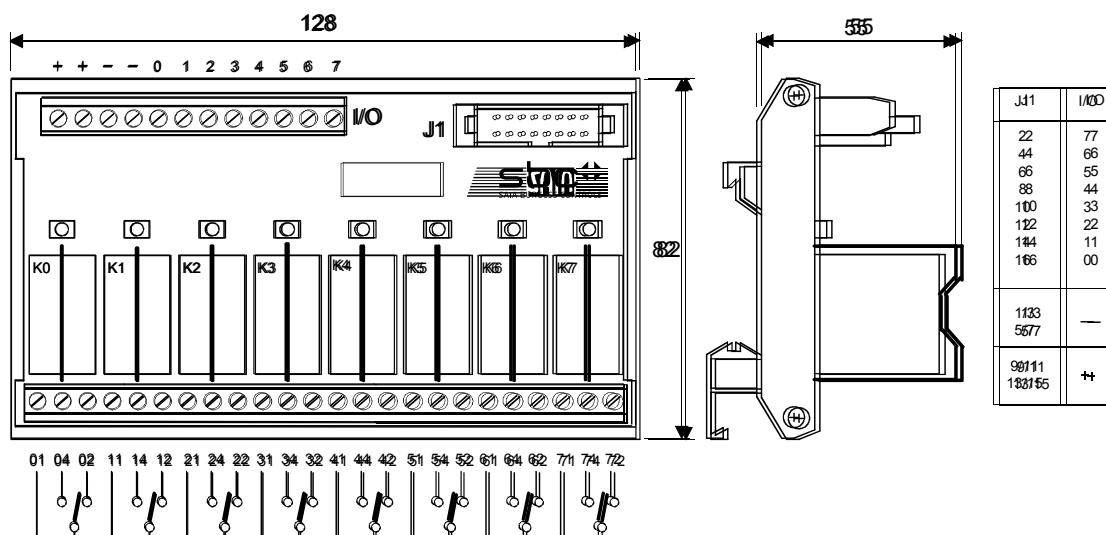
Input voltage:	24 VDC
Input current:	31 mA
Max. switching voltage:	440 VAC / 300 VDC
Nominal current:	12 A
Max. load with $\cos\phi = 1$:	3000 VA (AC) / 360 W (DC)
Max. load with $\cos\phi = 0.4$:	1250 VA (AC) / 150 W (DC)
Mon. load:	100 mA / 5 VDC
Switch-on delay t on:	max. 15 ms
Switch-off delay t off:	max. 5 ms
Contact coil isolation:	5 kVAC
Isolation between contacts:	1 kVAC
Mech. lifetime (relays):	20 x 10 ⁶ cycles
Electr. lifetime (relays):	100,000 cycles at 12 A/250 VAC, $\cos\phi = 1$
Max. switching cycles, mechanical:	18,000 cycles/hour
electrical:	1800 cycles/hour at nominal load
Ambient temperature:	-40°C... + 85°C

Type and item number:

Relay interface:	PCD2.K552 with 8 G2RL-1 relays and LEDs
Relays:	G2RL-1, 24DC (OMRON) 91E025849
Spring clip:	EMR/15 91E025914

4.1 PCD2.K551 relay interface with relay type G2R-1

Relay switched on: LED on
Relay switched off: LED off








PCD end: 16-pole ribbon connector I/O (or screw terminals J1),
Process end: 24 screw terminals 0.5 - 1.5 mm².

Input voltage:	24 VDC
Input current:	31 mA
Max. switching voltage:	400 VAC / 125 VDC
Nominal current:	10 A
Max. load with $\cos\phi = 1$:	AC = 2500 VA DC = 300 W
Max. load with $\cos\phi = 0.4$:	AC = 1875 VA DC = 150 W
Mon. load:	100 mA / 5 VDC
Switch-on delay t on:	15 ms
Switch-off delay t off:	10 ms (AC) 5 ms (DC)
Contact coil isolation:	4 kVAC
Isolation between contacts:	1 kVAC
Mech. lifetime (relays):	1×10^6 cycles
Ambient temperature:	25°C...+50°C

Type and item-number: Relay type G2R-1 is no longer supplied, replaced by type G2RL-1

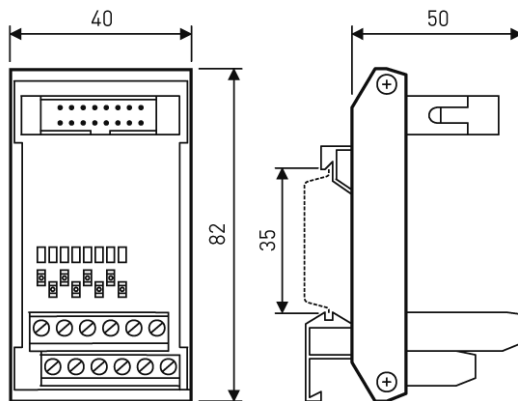
A Appendix

A.1 Icons

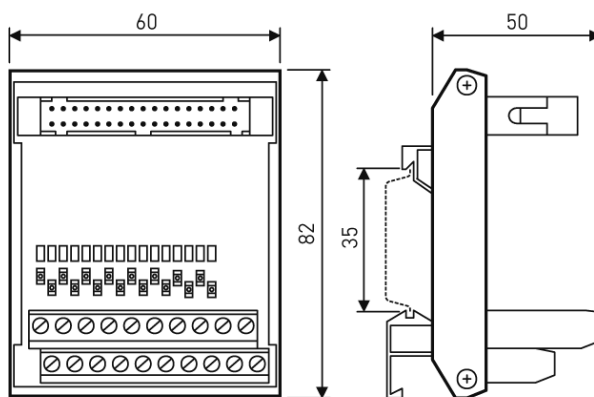
	In manuals, this symbol refers the reader to further information in this manual or other manuals or technical information documents. As a rule there is no direct link to such documents.
	This symbol warns the reader of the risk to components from electrostatic discharges caused by touch. Recommendation: Before coming into contact with electrical components, you should at least touch the Minus of the system (cabinet of PGU connector). It is better to use a grounding wrist strap with its cable permanently attached to the Minus of the system.
	This sign accompanies instructions that must always be followed.
	Explanations beside this sign are valid only for the Saia PCD® Classic series.
	Explanations beside this sign are valid only for the Saia PCD® xx7 series.

A.2 Dimensioned drawings

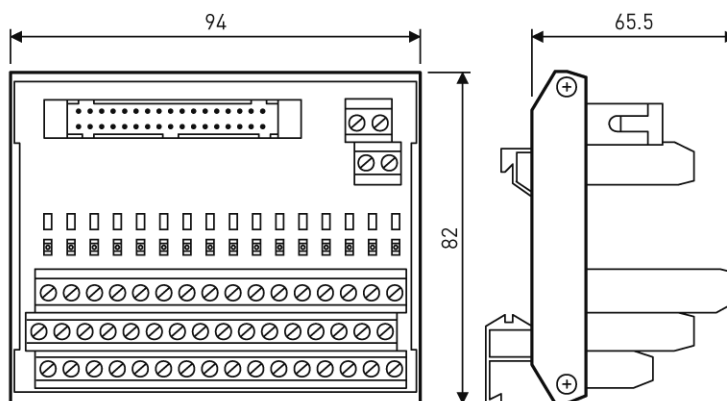
A.2.1 PCD2.K510 and PCD2.K511



A.2.2 PCD2.K520 and PCD2.K521

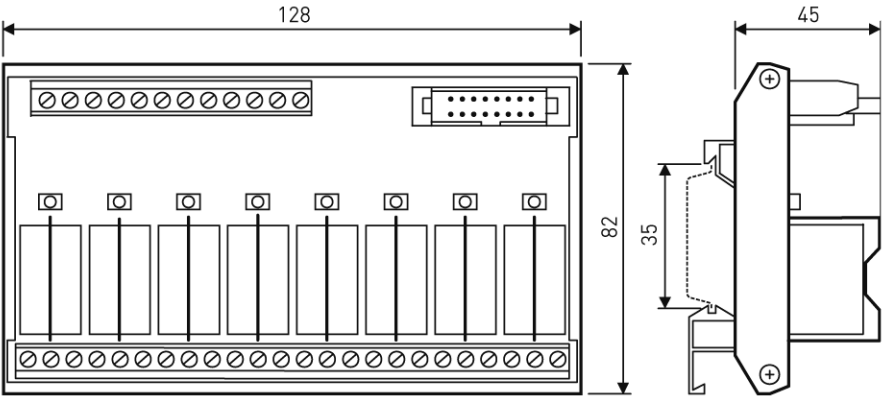


A.2.3 PCD2.K525

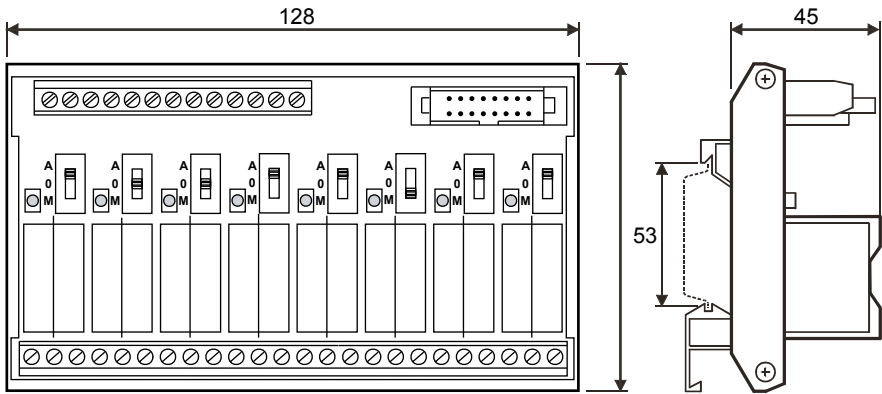


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A.2.4 PCD2.K551



A.2.5 PCD2.K552



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A.3 Order codes

Type	Description	Weight
	<i>Cable for digital I/O modules with 16 inputs or 16 outputs</i>	
PCD2.K221	1.5 m length ¹⁾	240 g
PCD2.K223	3.0 m length ¹⁾	330 g
	<i>Half-round cable to adapters or relay interface</i>	
PCD2.K231	1.0 m length ¹⁾	140 g
PCD2.K232	2.0 m length ¹⁾	220 g
PCD2.K241	1.0 m length ¹⁾	120 g
PCD2.K242	2.0 m length ¹⁾	200 g
	<i>Cable for digital I/O modules PCD2 with 10-pole</i>	
PCD2.K261	1.5 m length ¹⁾	100 g
PCD2.K263	3.0 m length ¹⁾	445 g
	<i>Cable for analogue I/O modules and ..H.. modules</i>	
PCD2.K271	1.5 m length ¹⁾	100 g
PCD2.K273	3.0 m length ¹⁾	290 g
	<i>Cable for PCD2.A250 relay output module, PCD2.W3x5, PCD2.W6x5 and PCD2.W525</i>	
PCD2.K281	1.5 m length ¹⁾	200 g
PCD2.K283	3.0 m length ¹⁾	650 g
	<i>Cable for digital I/O modules PCD3 with 10-pole</i>	
PCD3.K261	1.5 m length ¹⁾	140 g
PCD3.K263	3.0 m length ¹⁾	260 g
	<i>Cable for PCD3.W3x5, PCD3.W6x5 and PCD3.W525</i>	
PCD3.K281	1.5 m length ¹⁾	220 g
PCD3.K283	3.0 m length ¹⁾	380 g
	<i>Plug-in system cables for manual control/emergency</i>	
PCD3.K800	for PCD3.W800 manual control modules with 4 analogue output channels 8 strands, each 1.0 mm ² , held together with cable binders , 2.5 m long, Saia PCD side: 8-pole, plug-in spring terminal block type J, process side: strand ends free, numbered	280 g
PCD3.K810	for PCD3.A810 manual control modules with 4 relay outputs 12 strands, each 1.0 mm ² , held together with cable binders , 2.5 m long, Saia PCD side: 12-pole, plug-in spring terminal block type F, process side: strand ends free, numbered	440 g
PCD3.K860	for PCD3.A860 light and shade modules 4 strands, each 1.5 mm ² , held together with cable binders , 2.5 m long, Saia PCD side: 4-pole, plug-in spring terminal block type G, process side: strand ends free, numbered	220 g
PCD3.K861	6 strands, each 0.75 mm ² , held together with cable binders , 2.5 m long, Saia PCD side: 6-pole, plug-in spring terminal block type H, process side: strand ends free, numbered	180 g

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Type	Description	Weight
<i>Ribbon/screw terminal adapters</i>		
PCD2.K510	for 8 inputs or 8 outputs, with 20 screw terminals, without LEDs	100 g
PCD2.K511	for 8 inputs or 8 outputs, with 20 screw terminals and with LEDs ²⁾	100 g
PCD2.K520	for 16 inputs or 16 outputs, with 20 screw terminals, without LEDs	150 g
PCD2.K521	for 16 inputs or 16 outputs, with 20 screw terminals and with LEDs ²⁾	150 g
PCD2.K525	for 16 inputs or 16 outputs, with 3 × 16 screw terminals and with LEDs ²⁾	280 g
PCD2.K551	Relay interface for 8 outputs, with LEDs	340 g
PCD2.K552	Relay interface for 8 outputs, with LEDs and manual control mode	400 g

¹⁾ Other cable lengths on request

²⁾ For source operation only

A.4 Contact**Saia-Burgess Controls AG**

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