

## Systemverkabelung - 2014 System Cabling - 2014

Projektierungs-Cross-Liste

Project Cross Reference List

Ein großer Teil der Kosten eines Automatisierungssystems resultiert aus der Verkabelung für die Stell- und Meldegeräte. Hinzu kommt, dass Maschinen und Anlagen immer komplexer werden und damit der Verkabelungsaufwand für die Ein- und Ausgabestationen weiter steigt. Zum Materialaufwand an Kabel und Leitungen kommt der Aufwand für die Planung, die Montage und Dokumentation noch hinzu.

Die Systemverkabelung reduziert die Herstellkosten durch schnelle, fehlerfreie und einheitliche I/O Verdrahtung von der Steuerungs- zur Feldebene.

Der Systemaufbau besteht aus den Komponenten:

- Frontadapter
- Systemkabel
- Anschaltmodul

Die Systemverkabelung ist verfügbar für SPSen von:

A large part of the costs of an automation system result from the cabling of the actuators and sensors. In addition to this, machines and systems are becoming more complex and the cabling effort of the input and output elements continue to increase.

Together with the material requirement in cable and connections, comes the effort for the planning, assembly and documentation.

The System Cabling reduces the manufacturing costs due to its quick, error-free and uniform I/O cabling from the control to the field level.

The System layout consists of these three components:

- Front Adapter
- System Cable
- Termination Module

The PLC System Cabling is available for the PLCs from:

- **Allen-Bradley** ..... 4
- **GE-Fanuc** ..... 12
- **Honeywell** ..... 14
- **MITSUBISHI** ..... 16
- **OMRON** ..... 18
- **Phoenix Contact** ..... 24
- **Schneider Electric** ..... 26
- **SIEMENS** ..... 30
- **Adapter mit Systemkabel / Adapter with integrated system cable** ..... 50
- **System Cable** ..... 51
- **Adapter PLC-V8** ..... 56

Mit der **Projektierungs-Cross-Liste** sind die Vorteile des Systemkonzepts schon für den Planer nutzbar.

Ausgehend von der verwendeten SPS wird die zugehörige Cross-Liste zu Grunde gelegt. Nach Auswahl der I/O Anschlusskarte werden die erforderlichen Systemverkabelungskomponenten eindeutig spezifiziert. Die Anschaltmodule sind in die Über-

gabe von 8 und 32 Kanälen mit jeweils passiven und aktiven Modulen gruppiert und werden passgenau auf die Applikation ausgewählt.

**Hinweis:**

Beschreibung, technische Daten und Anschlussbelegung der Systemverkabelungskomponenten finden Sie im Phoenix Contact-Katalog 7-2013.

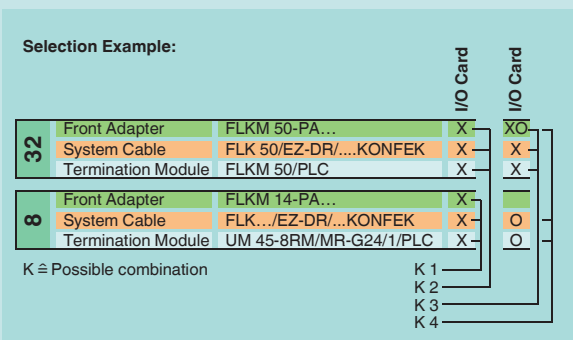
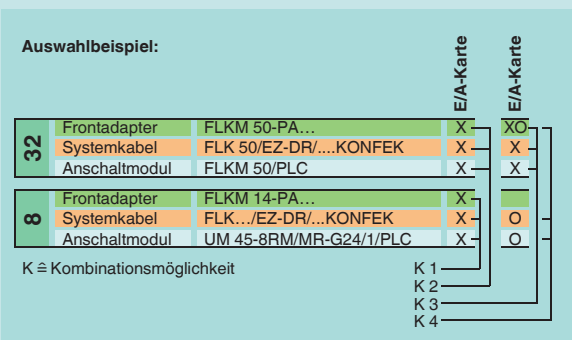
With this **Project Cross-Reference List** the advantages of the system concept are available and of benefit to the Project Engineer.

The reference table is based on the PLC used and provides the reference of available modules. After selection of the PLC I/O card, the required System Cabling components are clearly specified. The termination modules are grouped in either

8 and 32 channels into passive and active modules and are selected according to the application.

**Important:**

Description, technical data and connection - layout of the System Cabling components can be found in the Phoenix Contact catalog 7-2013.





			Katalog 7-2013 Catalog 7-2013	Bestellnr. / Order No.	CPU 312C	CPU 313C	CPU 313C-2DP	CPU 313C-2PDP	CPU 314C-2DP	CPU 314C-2PDP	321-1BH50-0AA0	321-7BH01-0AB0	321-1BH02-0AA0	321-1BH10-0AA0	321-1BL00-0AA0	321-1BP00-0AA0 <sup>2)</sup>	322-1BH01-0AA0	322-1BH10-0AA0	322-1BP00-0AA0	322-1BPS0-0AA0	322-8BF00-0AB0	322-8BH01-0AB0	322-8BH10-0AB0	322-1BL00-0AA0	323-1BH01-0AA0		
Bezeichnung / Description			Katalog 7-2013 Catalog 7-2013	Bestellnr. / Order No.	CPU 312C	CPU 313C	CPU 313C-2DP	CPU 313C-2PDP	CPU 314C-2DP	CPU 314C-2PDP	321-1BH50-0AA0	321-7BH01-0AB0	321-1BH02-0AA0	321-1BH10-0AA0	321-1BL00-0AA0	321-1BP00-0AA0 <sup>2)</sup>	322-1BH01-0AA0	322-1BH10-0AA0	322-1BP00-0AA0	322-1BPS0-0AA0	322-8BF00-0AB0	322-8BH01-0AB0	322-8BH10-0AB0	322-1BL00-0AA0	323-1BH01-0AA0		
32 Kanäle / 32 channels	passiv / passive	VIP-PA-FLK50/.../MS7 <sup>1)</sup>	448	Seite/page 50		X	X	X	X	X					X												
		CABLE-FCN40/1X50/.../S7-OUT	453	Seite/page 51																X	X						
		CABLE-FCN40/1X50/.../S7-IN	453	Seite/page 51													X										
		VIP-2/SC/FLK50/PLC	471	2315227			X	X	X	X	X					X	X			X	X						
		VIP-2/PT/FLK50/PLC	471	2903803			X	X	X	X	X					X	X			X	X						
		VIP-2/SC/FLK50/LED/PLC	471	2322252			X	X	X	X	X					X	X			X	X						
		VIP-2/PT/FLK50/LED/PLC	471	2904280			X	X	X	X	X					X	X			X	X						
		FLKM 50/32M/PLC	477	2289719			X	X	X	X	X					X	X			X	X						
		FLKM 50/32P/PLC	477	2291121			X	X	X	X	X					X	X			X	X						
		FLKMS 50/32IM/PLC	480	2284523			X	X	X	X	X					X	X			X	X						
		FLKMS 50/32IM/LA/PLC	480	2284510			X	X	X	X	X					X	X			X	X						
		FLKMS 50/32IM/ZFKDS/PLC	480	2901389			X	X	X	X	X					X	X			X	X						
	FLKM 50/KDS 3-MT/PPA/PLC	482	2290614			X	X	X	X	X					X	X			X	X							
	FLKM50/32M/SI/PLC	478	2294490			X	X	X	X	X					X	X			X	X							
	VIP-2/SC/FLK50 (1-40) /S7	472	2315243			X	X	X	X	X					X	X			X	X			X	X			
	VIP-2/PT/FLK50 (1-40) /S7	472	2903804			X	X	X	X	X					X	X			X	X			X	X			
	FLKM 50/KDS3-MT/PPA/S7-300	482	2304490			X	X	X	X	X					X	X			X	X			X	X			
	UMK-32RM/MR-G24/1/PLC	492	2979472														X	X	X	X							
	UM-32RM/RT-G24/21/PLC	493	2968373														X	X	X	X							
	UMK-16RM/KSR-G24/21/PLC	495	2979498														X	X	X	X							
	UMK-16RM/KSR-G24/21/E/PLC	495	2979508														X	X	X	X							
	UM-16RELS/KSR-G24/21/MT/PLC	497	2962382														X	X	X	X							
	UM-16RELS/KSR-G24/21/E/MT/PLC	497	2962379														X	X	X	X							
	UM 32RM/KSR-G24/21/MS/PLC	498	2900891														X	X	X	X							

			Katalog 7-2013 Catalog 7-2013	Bestellnr. / Order No.	CPU 312C	CPU 313C	CPU 313C-2DP	CPU 313C-2PDP	CPU 314C-2DP	CPU 314C-2PDP	321-1BH50-0AA0	321-7BH01-0AB0	321-1BH02-0AA0	321-1BH10-0AA0	321-1BL00-0AA0	321-1BP00-0AA0 <sup>2)</sup>	322-1BH01-0AA0	322-1BH10-0AA0	322-1BP00-0AA0	322-1BPS0-0AA0	322-8BF00-0AB0	322-8BH01-0AB0	322-8BH10-0AB0	322-1BL00-0AA0	323-1BH01-0AA0		
Bezeichnung / Description			Katalog 7-2013 Catalog 7-2013	Bestellnr. / Order No.	CPU 312C	CPU 313C	CPU 313C-2DP	CPU 313C-2PDP	CPU 314C-2DP	CPU 314C-2PDP	321-1BH50-0AA0	321-7BH01-0AB0	321-1BH02-0AA0	321-1BH10-0AA0	321-1BL00-0AA0	321-1BP00-0AA0 <sup>2)</sup>	322-1BH01-0AA0	322-1BH10-0AA0	322-1BP00-0AA0	322-1BPS0-0AA0	322-8BF00-0AB0	322-8BH01-0AB0	322-8BH10-0AB0	322-1BL00-0AA0	323-1BH01-0AA0		
8 Kanäle / 8 channels	passiv / passive	VIP-PA-FLK14/.../MS7 <sup>1)</sup>	449	Seite/page 50							X	X	X	X		X	X										
		VIP-PA-FLK4X14/.../MS7 <sup>1)</sup>	449	Seite/page 50		X	X	X	X	X						X											
		CABLE-FCN40/4X14/.../S7-OUT	453	Seite/page 51																X	X						
		CABLE-FCN40/4X14/.../S7-IN	453	Seite/page 51													X										
		VIP-2/SC/2FLK14 (1-20) /S7	474	2315230			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		VIP-2/PT/2FLK14 (1-20) /S7	474	2903802			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		FLKM-2FLK 14/KDS3-MT/PPA/S7	482	2295062			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		VIP-2/SC/FLK14/PLC	470	2315214			X	X	X	X	X					X	X			X	X						
		VIP-2/PT/FLK14/PLC	470	2903801			X	X	X	X	X					X	X			X	X						
		VIP-2/SC/FLK14/LED/PLC	470	2322249			X	X	X	X	X					X	X			X	X						
		VIP-2/PT/FLK14/LED/PLC	470	2904279			X	X	X	X	X					X	X			X	X						
		VIP-3/SC/FLK14/8IM/PLC	479	2322278			X	X	X	X	X					X	X			X	X						
	VIP-3/PT/FLK14/8IM/PLC	479	2904282			X	X	X	X	X					X	X			X	X							
	VIP-2/SC/FLK14/8M/PLC	476	2322281			X	X	X	X	X					X	X			X	X							
	VIP-2/PT/FLK14/8M/PLC	476	2904283			X	X	X	X	X					X	X			X	X							
	VIP-2/SC/FLK14/8P/PLC	476	2322294			X	X	X	X	X					X	X			X	X							
	VIP-2/PT/FLK14/8P/PLC	476	2904284			X	X	X	X	X					X	X			X	X							
	VIP-3/SC/FLK14/8IM/LED/PLC	479	2322265			X	X	X	X	X					X	X			X	X							
	VIP-3/PT/FLK14/8IM/LED/PLC	479	2904281			X	X	X	X	X					X	X			X	X							
	FLKM 14/KDS 3-MT/PPA/PLC	482	2290423			X	X	X	X	X					X	X			X	X							
	FLKM 14/8M/SI/PLC	478	2294487			X	X	X	X	X					X	X			X	X							
	UMK-8RM/MR-G24/1/PLC	492	2979469			X	X	X	X	X					X	X			X	X							
	UM-8RM/RT-G24/21/PLC	493	2968386			X	X	X	X	X					X	X			X	X							
	UMK-8RM/KSR-G24/21/PLC	494	2979485			X	X	X	X	X					X	X			X	X							
	UMK-8RELS/KSR-G24/21-21/PLC	496	2976187			X	X	X	X	X					X	X			X	X							
	UM-8RELS/KSR-G24/21/MT/PLC	497	2962463			X	X	X	X	X					X	X			X	X							
	VIP-8RPT-24DC/21/D0/FU/PLC		2903601			X	X	X	X	X					X	X			X	X							
	UM-8RM/KSR-G24/21/SI/PLC	499	2900892			X	X	X	X	X					X	X			X	X							
	UM-8RM/KSR-G24/21/MS/PLC	498	2900890			X	X	X	X	X					X	X			X	X							
	UM-8RM/KSR-G24/21/MS/SI/PLC	499	2900893			X	X	X	X	X					X	X			X	X							
	PLC-V8/FLK14/OUT	484	2295554			X	X	X	X	X					X	X			X	X							
	VIP-8RPT-24DC/1AU/DI/PLC		2903600			X	X	X	X	X			X	X	X	X			X	X							
VIP-8RPT-120AC/1AU/DI/PLC		2904576			X	X	X	X	X			X	X	X	X			X	X								
PLC-V8/FLK14/IN	484	2296553			X	X	X	X	X					X	X			X	X								
PLC-V8L/FLK14/OUT	485	2299660			X	X	X	X	X					X	X			X	X								

<sup>1)</sup> Frontadapter mit integriertem Systemkabel  
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**Frontadapter mit Systemkabel für  
SIMATIC S7-300 / ET 200 M /  
Front adapter with integrated system cable  
SIMATIC S7-300 / ET 200 M**

**Systemkabel für 64-kanalige I/O-Karten  
der SIMATIC S7-300 / ET 200 M /  
System cable for 64 channel I/O-cards  
SIMATIC S7-300 / ET 200 M**

**1 x 32 Kanäle anschaltbar /  
1 x 32 channels can be connected**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	VIP-PA-FLK50/0,5M/S7	2322443
1,0 m	VIP-PA-FLK50/1,0M/S7	2322456
1,5 m	VIP-PA-FLK50/1,5M/S7	2322469
2,0 m	VIP-PA-FLK50/2,0M/S7	2321800
2,5 m	VIP-PA-FLK50/2,5M/S7	2322472
3,0 m	VIP-PA-FLK50/3,0M/S7	2322485
4,0 m	VIP-PA-FLK50/4,0M/S7	2322498
5,0 m	VIP-PA-FLK50/5,0M/S7	2322508
6,0 m	VIP-PA-FLK50/6,0M/S7	2322511
7,0 m	VIP-PA-FLK50/7,0M/S7	2322524
8,0 m	VIP-PA-FLK50/8,0M/S7	2322537
10 m	VIP-PA-FLK50/10,0M/S7	2322540

**1 x 32 Output Kanäle anschaltbar /  
1 x 32 output channels can be connected**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	CABLE-FCN40/1X50/0,5M/S7-OUT	2321017
1,0 m	CABLE-FCN40/1X50/1,0M/S7-OUT	2321020
2,0 m	CABLE-FCN40/1X50/2,0M/S7-OUT	2321033
3,0 m	CABLE-FCN40/1X50/3,0M/S7-OUT	2321046
4,0 m	CABLE-FCN40/1X50/4,0M/S7-OUT	2321059
6,0 m	CABLE-FCN40/1X50/6,0M/S7-OUT	2321062
8,0 m	CABLE-FCN40/1X50/8,0M/S7-OUT	2321075
10 m	CABLE-FCN40/1X50/10,0M/S7-OUT	2321088

**4 x 8 Kanäle anschaltbar /  
4 x 8 channels can be connected**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	VIP-PA-FLK50/4X14/0,5M/S7	2322553
1,0 m	VIP-PA-FLK50/4X14/1,0M/S7	2322566
1,5 m	VIP-PA-FLK50/4X14/1,5M/S7	2322579
2,0 m	VIP-PA-FLK50/4X14/2,0M/S7	2321910
2,5 m	VIP-PA-FLK50/4X14/2,5M/S7	2322582
3,0 m	VIP-PA-FLK50/4X14/3,0M/S7	2322595
4,0 m	VIP-PA-FLK50/4X14/4,0M/S7	2322605
5,0 m	VIP-PA-FLK50/4X14/5,0M/S7	2322618
6,0 m	VIP-PA-FLK50/4X14/6,0M/S7	2322621
7,0 m	VIP-PA-FLK50/4X14/7,0M/S7	2322634
8,0 m	VIP-PA-FLK50/4X14/8,0M/S7	2322647
10 m	VIP-PA-FLK50/4X14/10,0M/S7	2322650

**1 x 32 Input Kanäle anschaltbar /  
1 x 32 input channels can be connected**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	CABLE-FCN40/1X50/0,5M/S7-IN	2321091
1,0 m	CABLE-FCN40/1X50/1,0M/S7-IN	2321101
2,0 m	CABLE-FCN40/1X50/2,0M/S7-IN	2321114
3,0 m	CABLE-FCN40/1X50/3,0M/S7-IN	2321127
4,0 m	CABLE-FCN40/1X50/4,0M/S7-IN	2321130
6,0 m	CABLE-FCN40/1X50/6,0M/S7-IN	2321143
8,0 m	CABLE-FCN40/1X50/8,0M/S7-IN	2321156
10 m	CABLE-FCN40/1X50/10,0M/S7-IN	2321169

**4 x 8 Output Kanäle anschaltbar /  
4 x 8 output channels can be connected**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	CABLE-FCN40/4X14/0,5M/S7-OUT	2321172
1,0 m	CABLE-FCN40/4X14/1,0M/S7-OUT	2321185
2,0 m	CABLE-FCN40/4X14/2,0M/S7-OUT	2321198
3,0 m	CABLE-FCN40/4X14/3,0M/S7-OUT	2321208
4,0 m	CABLE-FCN40/4X14/4,0M/S7-OUT	2321211
6,0 m	CABLE-FCN40/4X14/6,0M/S7-OUT	2321224
8,0 m	CABLE-FCN40/4X14/8,0M/S7-OUT	2321237
10 m	CABLE-FCN40/4X14/10,0M/S7-OUT	2321240

**2 x 8 Kanäle anschaltbar /  
2 x 8 channels can be connected**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	VIP-PA-FLK14/0,5M/S7	2322663
1,0 m	VIP-PA-FLK14/1,0M/S7	2322676
1,5 m	VIP-PA-FLK14/1,5M/S7	2322689
2,0 m	VIP-PA-FLK14/2,0M/S7	2321790
2,5 m	VIP-PA-FLK14/2,5M/S7	2322692
3,0 m	VIP-PA-FLK14/3,0M/S7	2322702
4,0 m	VIP-PA-FLK14/4,0M/S7	2322715
5,0 m	VIP-PA-FLK14/5,0M/S7	2322728
6,0 m	VIP-PA-FLK14/6,0M/S7	2322731
7,0 m	VIP-PA-FLK14/7,0M/S7	2322744
8,0 m	VIP-PA-FLK14/8,0M/S7	2322757
10 m	VIP-PA-FLK14/10,0M/S7	2322760

**4 x 8 Input Kanäle anschaltbar /  
4 x 8 input channels can be connected**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	CABLE-FCN40/4X14/0,5M/S7-IN	2321253
1,0 m	CABLE-FCN40/4X14/1,0M/S7-IN	2321266
2,0 m	CABLE-FCN40/4X14/2,0M/S7-IN	2321279
3,0 m	CABLE-FCN40/4X14/3,0M/S7-IN	2321282
4,0 m	CABLE-FCN40/4X14/4,0M/S7-IN	2321295
6,0 m	CABLE-FCN40/4X14/6,0M/S7-IN	2321305
8,0 m	CABLE-FCN40/4X14/8,0M/S7-IN	2321318
10 m	CABLE-FCN40/4X14/10,0M/S7-IN	2321321

**Standardlängen, nicht geschirmt / Standard lengths, non-shielded**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,3 m	FLK 14/EZ-DR/ 30/KONFEK	2295729
0,5 m	FLK 14/EZ-DR/ 50/KONFEK	2288901
1,0 m	FLK 14/EZ-DR/100/KONFEK	2288914
1,5 m	FLK 14/EZ-DR/150/KONFEK	2288927
2,0 m	FLK 14/EZ-DR/200/KONFEK	2288930
2,5 m	FLK 14/EZ-DR/250/KONFEK	2288943
3,0 m	FLK 14/EZ-DR/300/KONFEK	2288956
3,5 m	FLK 14/EZ-DR/350/KONFEK	2288969
4,0 m	FLK 14/EZ-DR/400/KONFEK	2288972
4,5 m	FLK 14/EZ-DR/450/KONFEK	2290847
5,0 m	FLK 14/EZ-DR/500/KONFEK	2290834
5,5 m	FLK 14/EZ-DR/550/KONFEK	2290850
6,0 m	FLK 14/EZ-DR/600/KONFEK	2290863
8,0 m	FLK 14/EZ-DR/800/KONFEK	2299563
10 m	FLK 14/EZ-DR/1000/KONFEK	2299576

0,5 m	FLK 40/EZ-DR/ 50/KONFEK	2288985
1,0 m	FLK 40/EZ-DR/100/KONFEK	2288998
1,5 m	FLK 40/EZ-DR/150/KONFEK	2289007
2,0 m	FLK 40/EZ-DR/200/KONFEK	2289010
2,5 m	FLK 40/EZ-DR/250/KONFEK	2289023
3,0 m	FLK 40/EZ-DR/300/KONFEK	2289036
3,5 m	FLK 40/EZ-DR/350/KONFEK	2289049
4,0 m	FLK 40/EZ-DR/400/KONFEK	2289052
6,0 m	FLK 40/EZ-DR/600/KONFEK	2299589
8,0 m	FLK 40/EZ-DR/800/KONFEK	2299592
10 m	FLK 40/EZ-DR/1000/KONFEK	2299602

0,5 m	FLK 50/EZ-DR/ 50/KONFEK	2289065
1,0 m	FLK 50/EZ-DR/100/KONFEK	2289078
1,5 m	FLK 50/EZ-DR/150/KONFEK	2289081
2,0 m	FLK 50/EZ-DR/200/KONFEK	2289094
2,5 m	FLK 50/EZ-DR/250/KONFEK	2289104
3,0 m	FLK 50/EZ-DR/300/KONFEK	2289117
3,5 m	FLK 50/EZ-DR/350/KONFEK	2289120
4,0 m	FLK 50/EZ-DR/400/KONFEK	2289133
4,5 m	FLK 50/EZ-DR/450/KONFEK	2289573
5,0 m	FLK 50/EZ-DR/500/KONFEK	2289586
5,5 m	FLK 50/EZ-DR/550/KONFEK	2289599
6,0 m	FLK 50/EZ-DR/600/KONFEK	2289609
6,5 m	FLK 50/EZ-DR/650/KONFEK	2289612
7,0 m	FLK 50/EZ-DR/700/KONFEK	2289625
7,5 m	FLK 50/EZ-DR/750/KONFEK	2289638
8,0 m	FLK 50/EZ-DR/800/KONFEK	2289641
8,5 m	FLK 50/EZ-DR/850/KONFEK	2289654
9,0 m	FLK 50/EZ-DR/900/KONFEK	2289667
9,5 m	FLK 50/EZ-DR/950/KONFEK	2289670
10 m	FLK 50/EZ-DR/1000/KONFEK	2289683

0,5 m	FLK 50/4X14/EZ-DR/ 50/KONFEK	2296689
1,0 m	FLK 50/4X14/EZ-DR/ 100/KONFEK	2296692
1,5 m	FLK 50/4X14/EZ-DR/ 150/KONFEK	2296702
2,0 m	FLK 50/4X14/EZ-DR/ 200/KONFEK	2296715
2,5 m	FLK 50/4X14/EZ-DR/ 250/KONFEK	2305402
3,0 m	FLK 50/4X14/EZ-DR/ 300/KONFEK	2296728
4,0 m	FLK 50/4X14/EZ-DR/ 400/KONFEK	2296731
6,0 m	FLK 50/4X14/EZ-DR/ 600/KONFEK	2296744
8,0 m	FLK 50/4X14/EZ-DR/ 800/KONFEK	2296757
10 m	FLK 50/4X14/EZ-DR/1000/KONFEK	2296773

**Standardlängen, geschirmt / Standard lengths, shielded**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	FLK 14/EZ-DR/ 50/KONFEK/S	2296977
1,0 m	FLK 14/EZ-DR/100/KONFEK/S	2296980
1,5 m	FLK 14/EZ-DR/150/KONFEK/S	2296993
2,0 m	FLK 14/EZ-DR/200/KONFEK/S	2297002
3,0 m	FLK 14/EZ-DR/300/KONFEK/S	2299013
4,0 m	FLK 14/EZ-DR/400/KONFEK/S	2299026
6,0 m	FLK 14/EZ-DR/600/KONFEK/S	2299039
8,0 m	FLK 14/EZ-DR/800/KONFEK/S	2299042
10 m	FLK 14/EZ-DR/1000/KONFEK/S	2299055

0,5 m	FLK 50/EZ-DR/ 50/KONFEK/S	2299097
1,0 m	FLK 50/EZ-DR/100/KONFEK/S	2299107
1,5 m	FLK 50/EZ-DR/150/KONFEK/S	2299110
2,0 m	FLK 50/EZ-DR/200/KONFEK/S	2299123
3,0 m	FLK 50/EZ-DR/300/KONFEK/S	2299136
4,0 m	FLK 50/EZ-DR/400/KONFEK/S	2299149
6,0 m	FLK 50/EZ-DR/600/KONFEK/S	2299152
8,0 m	FLK 50/EZ-DR/800/KONFEK/S	2299165
10 m	FLK 50/EZ-DR/1000/KONFEK/S	2299178

**Standardlängen, halogenfrei / Standard lengths, halogen-free**

Länge / length:	Bezeichnung / Description	Bestellnr. / Order No.
0,5 m	FLK 14/EZ-DR/HF/ 50/KONFEK	2305952
1,0 m	FLK 14/EZ-DR/HF/100/KONFEK	2305965
1,5 m	FLK 14/EZ-DR/HF/150/KONFEK	2305978
2,0 m	FLK 14/EZ-DR/HF/200/KONFEK	2305981
2,5 m	FLK 14/EZ-DR/HF/250/KONFEK	2305994
3,0 m	FLK 14/EZ-DR/HF/300/KONFEK	2304759
4,0 m	FLK 14/EZ-DR/HF/400/KONFEK	2304762
5,0 m	FLK 14/EZ-DR/HF/500/KONFEK	2304717
6,0 m	FLK 14/EZ-DR/HF/600/KONFEK	2306003
7,0 m	FLK 14/EZ-DR/HF/700/KONFEK	2314011
8,0 m	FLK 14/EZ-DR/HF/800/KONFEK	2314024
10 m	FLK 14/EZ-DR/HF/1000/KONFEK	2314037

0,5 m	CABLE-FLK50/0,14/HF/ 0,5M	2314134
1,0 m	CABLE-FLK50/0,14/HF/ 1,0M	2314147
1,5 m	CABLE-FLK50/0,14/HF/ 1,5M	2314150
2,0 m	CABLE-FLK50/0,14/HF/ 2,0M	2314163
2,5 m	CABLE-FLK50/0,14/HF/ 2,5M	2314176
3,0 m	CABLE-FLK50/0,14/HF/ 3,0M	2314189
4,0 m	CABLE-FLK50/0,14/HF/ 4,0M	2314192
5,0 m	CABLE-FLK50/0,14/HF/ 5,0M	2314202
6,0 m	CABLE-FLK50/0,14/HF/ 6,0M	2314215
7,0 m	CABLE-FLK50/0,14/HF/ 7,0M	2314228
8,0 m	CABLE-FLK50/0,14/HF/ 8,0M	2314231
10 m	CABLE-FLK50/0,14/HF/10,0M	2314244

**Hinweis:**  
VARIOFACE-Systemkabel sind auch in anderen Längen erhältlich. Weitere Informationen entnehmen Sie bitte dem Phoenix Contact-Katalog 7 oder [phoenixcontact.net/products](http://phoenixcontact.net/products).

**Note:**  
VARIOFACE system cable are also available with other lengths. For further information please see the Phoenix Contact catalog 7 or [phoenixcontact.net/products](http://phoenixcontact.net/products).

**SLC 500 Kabel / SLC 500 Cable**

Länge / length:	Bezeichnung / Description	BestellNr. / Order No.
0,5 m	FLK 40/EZ-DR/ 50/SLC	2294610
1,0 m	FLK 40/EZ-DR/100/SLC	2294623
1,5 m	FLK 40/EZ-DR/150/SLC	2294636
2,0 m	FLK 40/EZ-DR/200/SLC	2294649
3,0 m	FLK 40/EZ-DR/300/SLC	2294652
0,5 m	FLK 40/4X14/EZ-DR/ 50/OB32	2296786
1,0 m	FLK 40/4X14/EZ-DR/100/OB32	2298483
2,0 m	FLK 40/4X14/EZ-DR/200/OB32	2298522
3,0 m	FLK 40/4X14/EZ-DR/300/OB32	2298535
0,5 m	FLK 40/4X14/EZ-DR/ 50/IB32	2296812
1,0 m	FLK 40/4X14/EZ-DR/100/IB32	2296825
2,0 m	FLK 40/4X14/EZ-DR/200/IB32	2296838
3,0 m	FLK 40/4X14/EZ-DR/300/IB32	2296841

**OMRON Kabel / OMRON Cable**

Länge / length:	Bezeichnung / Description	BestellNr. / Order No.
1,0 m	CABLE-FCN24/2X14/100/OMR-OUT	2304225
2,0 m	CABLE-FCN24/2X14/200/OMR-OUT	2304238
1,0 m	CABLE-FCN24/2X14/100/OMR-IN	2304241
2,0 m	CABLE-FCN24/2X14/200/OMR-IN	2304254
1,0 m	CABLE-FCN40/4X14/100/OMR-OUT	2304186
2,0 m	CABLE-FCN40/4X14/200/OMR-OUT	2304199
1,0 m	CABLE-FCN40/4X14/100/OMR-IN	2304209
2,0 m	CABLE-FCN40/4X14/200/OMR-IN	2304212
1,0 m	FLK 50/EZ-DR/FCN40/100/OMR-	2304144
2,0 m	FLK 50/EZ-DR/FCN40/200/OMR-	2304157
1,0 m	FLK 50/EZ-DR/FCN40/100/OMR-IN	2304160
2,0 m	FLK 50/EZ-DR/FCN40/200/OMR-IN	2304173

**Melsec Q Kabel / Melsec Q Cable**

Länge / length:	Bezeichnung / Description	BestellNr. / Order No.
0,5 m	CABLE-D37-M2,5/4X14/ 50/Y81P-O	2302476
1,0 m	CABLE-D37-M2,5/4X14/100/Y81P-O	2302489
2,0 m	CABLE-D37-M2,5/4X14/200/Y81P-O	2302492
3,0 m	CABLE-D37-M2,5/4X14/300/Y81P-O	2302502
0,5 m	CABLE-D37-M2,5/4X14/ 50/X81-I	2302515
1,0 m	CABLE-D37-M2,5/4X14/100/X81-I	2302528
2,0 m	CABLE-D37-M2,5/4X14/200/X81-I	2302531
3,0 m	CABLE-D37-M2,5/4X14/300/X81-I	2302544
0,5 m	FLK 50/EZ-DR/D37SUB/ 50/Y81P-O	2302599
1,0 m	FLK 50/EZ-DR/D37SUB/100/Y81P-O	2302609
2,0 m	FLK 50/EZ-DR/D37SUB/200/Y81P-O	2302612
3,0 m	FLK 50/EZ-DR/D37SUB/300/Y81P-O	2302638
0,5 m	FLK 50/EZ-DR/D37SUB/ 50/X81-I	2302641
1,0 m	FLK 50/EZ-DR/D37SUB/100/X81-I	2302654
2,0 m	FLK 50/EZ-DR/D37SUB/200/X81-I	2302667
3,0 m	FLK 50/EZ-DR/D37SUB/300/X81-I	2302670

**Melsec L / Q und Honeywell ML 200 Kabel / Melsec L / Q and Honeywell ML 200 cable**

Länge / length:	Bezeichnung / Description	BestellNr. / Order No.
0,5 m	CABLE-FCN40/1X50/ 0,5M/IM/MEL	2903468
1,0 m	CABLE-FCN40/1X50/ 1,5M/IM/MEL	2903469
2,0 m	CABLE-FCN40/1X50/ 2,0M/IM/MEL	2903470
0,5 m	CABLE-FCN40/1X50/ 0,5M/IP/MEL	2903476
1,0 m	CABLE-FCN40/1X50/ 1,5M/IP/MEL	2903477
2,0 m	CABLE-FCN40/1X50/ 2,0M/IP/MEL	2903478
0,5 m	CABLE-FCN40/4x14/ 0,5M/IM/MEL	2903502
1,0 m	CABLE-FCN40/4x14/ 1,5M/IM/MEL	2903503
2,0 m	CABLE-FCN40/4x14/ 2,0M/IM/MEL	2903504

**MODICON M340 Kabel / MODICON M340 Cable**

Länge / length:	Bezeichnung / Description	BestellNr. / Order No.
0,5 m	CABLE-FCN40/1X50/0,5M/M340	2321635
1,5 m	CABLE-FCN40/1X50/1,0M/M340	2321648
2,0 m	CABLE-FCN40/1X50/2,0M/M340	2321651
0,5 m	CABLE-FCN40/4X14/0,5M/M340	2321716
1,0 m	CABLE-FCN40/4X14/1,0M/M340	2321729
2,0 m	CABLE-FCN40/4X14/2,0M/M340	2321732

**Systemkabel für MINI Analog / System cable for MINI Analog**

Länge / length:	Bezeichnung / Description	BestellNr. / Order No.
0,5 m	FLK 16/EZ-DR/ 50/KONFEK	2299291
1,0 m	FLK 16/EZ-DR/100/KONFEK	2299301
1,5 m	FLK 16/EZ-DR/150/KONFEK	2299314
2,0 m	FLK 16/EZ-DR/200/KONFEK	2299327

**Systemkabel für AXIOLINE / System cable for AXIOLINE**

Länge / length:	Bezeichnung / Description	BestellNr. / Order No.
0,5 m	VIP-CAB-FLK14/AXIO/0,14/0,5M	2901604
1,0 m	VIP-CAB-FLK14/AXIO/0,14/1,0M	2901605
1,5 m	VIP-CAB-FLK14/AXIO/0,14/1,5M	2901606
2,0 m	VIP-CAB-FLK14/AXIO/0,14/2,0M	2901607

**Hinweis:**  
VARIOFACE-Systemkabel sind auch in anderen Längen erhältlich. Weitere Informationen entnehmen Sie bitte dem Phoenix Contact-Katalog 7 oder phoenixcontact.net/products.

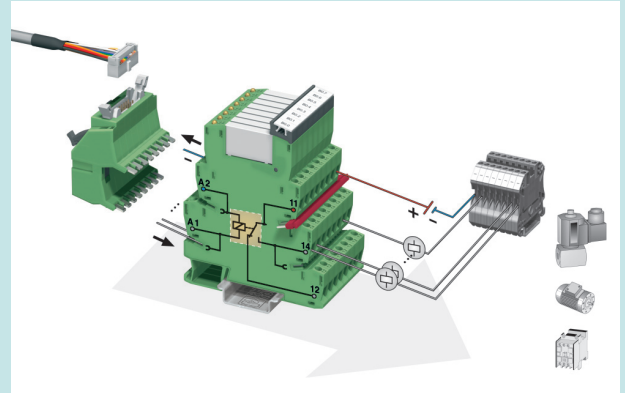
**Note:**  
VARIOFACE system cable are also available with other lengths. For further information please see the Phoenix Contact catalog 7 or phoenixcontact.net/products.

**PLC-Universal-Baureihe**

Die Universal-Baureihe ist als Ein- oder Ausgabeinterface einsetzbar. Sie besteht aus einer Grundklemme mit steckbarem Miniaturrelais (Wechslerkontakt) oder mit steckbarem Solid-State-Relais.

**PLC Universal Series**

The universal series can be used either as an input or output interface. It comprises a basic terminal block with pluggable miniature relay (PDT contact) or pluggable solid state relay.

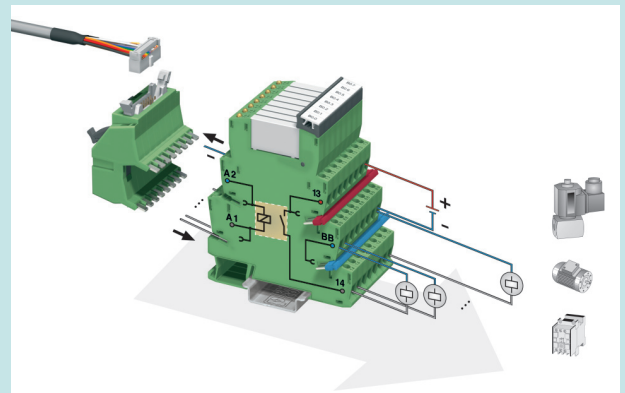


**PLC-Aktor-Baureihe**

Bei Anwendungen als Schnittstelle zwischen SPS und Aktoren, wie Motoren, Schützen und Magnetventilen, wird meist nur eine Schließfunktion benötigt. Eingesetzt wird hier das Ausgabeinterface PLC...ACT. Alle Anschlüsse der Aktoren, also auch der Lastrückleiter, werden direkt angeschlossen. Damit entfallen zusätzliche Abgangsklemmen.

**PLC Actuator Series**

In interface applications between the PLC and the actuators, such as motors, contactors or solenoid valves, often only an N/O function is required. The PLC-...ACT output interface is used here. All the actuator connections, including the load return line, are connected directly. This eliminates the need for additional output terminal blocks.

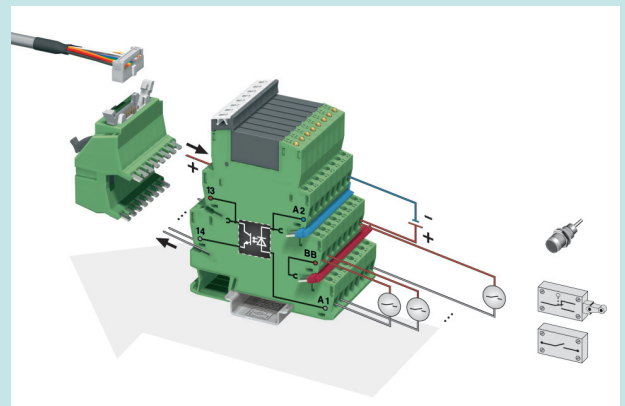


**PLC-Sensor-Baureihe**

Bei Anwendungen als Schnittstelle zwischen SPS und Sensoren, wie Näherungsschalter, Endschaltern oder Hilfskontakten, wird meist nur eine Schließfunktion benötigt. Eingesetzt wird hier das Eingabeinterface PLC...SEN. Alle Anschlüsse der Sensoren, also auch die Einspeisung der Versorgungsspannung für die Sensoren/Schalter, werden direkt angeschlossen. Damit entfallen zusätzliche Reihenklemmen.

**PLC Sensor Series**

In interface applications between the PLC and the sensors, such as proximity switches, limit switches or auxiliary contacts, often only an N/O function is required. The PLC-...SEN input interface is used here. All the sensor connections, including the voltage supply for the sensors/switches, are connected directly. This eliminates the need for additional modular terminal blocks.



**Anschlussart: / Connection method:**  
 - Schraubanschluss / Screw connection  
 - Zugfederanschluss / Spring-cage connection  
 - Push-in-Anschluss / Push-in connection

Baureihe / Series	Funktion / Function	Kontakt / Contact type	Eingang / Input	Ausgang / Output	Bezeichnung / Description	Anschlussart: / Connection method: PLC-R...	Katalog 7-2013 / Catalog 7-2013	Schraube / Screw	Zugfeder / Spring-cage	Push-in	PLC-V8... OUT/(M)	PLC-V8... IN/(M)	PLC-V8L... OUT/(M)		
														SC ≙ Schraube / Screw	SP ≙ Zugfeder / Spring-cage
Universal	Relais / Relay	1 Wechsler / 1 PDT	24 V DC	250 V AC/DC / 6 A	PLC-R...-24DC/21		322	2966171	2966472	2900299	X				
			24 V DC	250 V AC/DC / 10 A	PLC-R...-24DC/21HC		333	2967620	2912277	2900291			X		
			12 V DC	30 V AC/36 V DC / 50 mA	PLC-R...-12DC/21AU			2966919	2967442	2900317			X		
			24 V DC	30 V AC/36 V DC / 50 mA	PLC-R...-24DC/21AU		323	2966265	2966540	2900306	X	X			
			24 V AC/DC	30 V AC/36 V DC / 50 mA	PLC-R...-24UC/21AU		323	2966278	2966553	2900307	X	X			
			48 V DC	30 V AC/36 V DC / 50 mA	PLC-R...-48DC/21AU		323	2966126	2966566	2900308			X		
			60 V DC	30 V AC/36 V DC / 50 mA	PLC-R...-60DC/21AU		323	2966142	2966579	2900309			X		
			120 V AC/DC	30 V AC/36 V DC / 50 mA	PLC-R...-120UC/21AU		323	2966281	2966582	2900310			X		
			230 V AC/DC	30 V AC/36 V DC / 50 mA	PLC-R...-230UC/21AU		323	2966294	2966647	2900311			X		
			120 V AC	30 V AC/36 V DC / 50 mA <sup>2)</sup>	PLC-B...-120UC/21/SO46		334	2980319 <sup>4)</sup>	2980351 <sup>4)</sup>	2900453 <sup>4)</sup>			X		
	230 V AC	30 V AC/36 V DC / 50 mA <sup>2)</sup>	PLC-B...-230UC/21/SO46		334	2980335 <sup>4)</sup>	2980377 <sup>4)</sup>	2900455 <sup>4)</sup>			X				
	2 Wechsler / 2 PDTs	24 V DC	250 V AC/DC / 6 A	PLC-R...-24DC/21-21		323	2967060	2912507	2900330			X			
		24 V DC	30 V AC/DC / 50 mA	PLC-R...-24DC/21-21AU		323	2967125	2912578	2900338			X			
	Relais-Schalter / Relay Switch	1 Schließer / 1 N/O contact	24 V AC/DC	250 V AC/DC / 6 A	PLC-R...-24UC/1/S/H		350	2982236	2982249	2900328	X				
			24 V AC/DC	250 V AC/DC / 6 A	PLC-R...-24UC/1/S/L		350	2834876	2834889	2900327	X				
	Universal	Optokoppler / Solid-state relay	1 Schließer, elektronisch / 1 N/O contact, electronic	24 V DC	24 V DC / 3 A	PLC-O...-24DC/24DC/2		325	2966634	2967471	2900364	X			
				24 V DC	24 V DC / 10 A	PLC-O...-24DC/24DC/10/R		353	2982702	2982715	2900398	X			
				24 V DC	250 V AC / 0,75 A	PLC-O...-24DC/230AC/1		325	2967840	2967895	2900369	X			
				24 V DC	300 V DC / 1 A	PLC-O...-24DC/300DC/1		352	2980678	2980830	2900383	X			
				24 V DC	48 V DC / 100 mA	PLC-O...-24DC/48DC/100		324	2966728	2967549	2900352	X	X		
48 V DC				48 V DC / 100 mA	PLC-O...-48DC/48DC/100		324	2966993	2967743	2900353			X		
60 V DC				48 V DC / 100 mA	PLC-O...-60DC/48DC/100		324	2967455	2967756	2900354			X		
120 V AC/DC				48 V DC / 100 mA	PLC-O...-120UC/48DC/100		324	2966744	2967552	2900355			X		
230 V AC/DC				48 V DC / 100 mA	PLC-O...-230UC/48DC/100		324	2966757	2967565	2900356			X		
NAMUR				24 V DC / 50 mA	PLC-...-EIK 1-SVN 24P/P		364	2982663	2982676	2900397			X		
120 V AC				48 V DC / 100 mA <sup>3)</sup>	PLC-B...-120UC/21/SO46		334	2980319 <sup>4)</sup>	2980351 <sup>4)</sup>	2900453 <sup>4)</sup>			X		
230 V AC				48 V DC / 100 mA <sup>3)</sup>	PLC-B...-230UC/21/SO46		334	2980335 <sup>4)</sup>	2980377 <sup>4)</sup>	2900455 <sup>4)</sup>			X		
1 Wechsler, elektronisch / 1 PDT, electronic				24 V DC	48 V DC / 0,5 A	PLC-O...-24DC/48DC/500/W		353	2980636	2980649	2900378	X			
Durchgang / Feed-Through				-	250 V AC/DC	250 V AC/DC	PLC-VT		486	2296870	-	-	X	X	
					24 V DC	24 V DC	PLC-VT/LA		486	2296854	-	-	X	X	
Aktor / Actuator	Relais / Relay	1 Schließer / 1 N/O contact	24 V DC	250 V AC/DC / 6 A	PLC-R...-24DC/1/ACT		326	2966210	2967345	2900312	X				
			24 V DC	250 V AC/DC / 10 A (80 A; 20 ms)	PLC-R...-24DC/11C/ACT		332	2967604	2912413	2900298			X		
	2 Schließer / 2 N/O contacts	24 V DC	250 V AC/DC / 6 A	PLC-RSC-24DC/1-1/ACT		327	2967109	-	-			X			
		24 V DC	24 V DC / 3 A	PLC-O...-24DC/24DC/2/ACT		327	2966676	2967507	2900376	X					
	Optokoppler / Solid-state relay	1 Schließer, elektronisch / 1 N/O contact, electronic	24 V DC	24 V DC / 5 A	PLC-OSC-24DC/24DC/5/ACT		328	2982786	-	-			X		
			24 V DC	250 V AC / 0,75 A	PLC-OSC-24DC/230AC/1/ACT		327	2967947	-	-	X				
			24 V DC	250 V AC / 2 A	PLC-OSC-24DC/230AC/2/ACT		328	2982760	-	-			X		
	Durchgang / Feed-Through	-	250 V AC/DC	250 V AC/DC	PLC-VT/ACT		487	2295567	-	-	X				
24 V DC			24 V DC	PLC-VT/ACT/LA		487	2296867	-	-	X					
Sensor <sup>1)</sup>	Relais / Relay	1 Schließer / 1 N/O contact	24 V DC	30 V AC/36 V DC / 50 mA	PLC-R...-24DC/1AU/SEN		330	2966317	2967374	2900313			X		
			120 V AC/DC	30 V AC/36 V DC / 50 mA	PLC-R...-120UC/1AU/SEN		330	2966320	2967390	2900314			X		
			230 V AC/DC	30 V AC/36 V DC / 50 mA	PLC-R...-230UC/1AU/SEN		330	2966333	2967413	2900315			X		
			120 V AC	30 V AC/36 V DC / 50 mA <sup>2)</sup>	PLC-B...-120UC/1/SEN/SO46		335	2980322 <sup>4)</sup>	2980364 <sup>4)</sup>	2900456 <sup>4)</sup>			X		
			230 V AC	30 V AC/36 V DC / 50 mA <sup>2)</sup>	PLC-B...-230UC/1/SEN/SO46		335	2980348 <sup>4)</sup>	2980380 <sup>4)</sup>	2900457 <sup>4)</sup>			X		
			24 V DC	48 V DC / 100 mA	PLC-O...-24DC/48DC/100/SEN		331	2966773	2967578	2900358			X		
	Optokoppler / Solid-state relay	1 Schließer, elektronisch / 1 N/O contact, electronic	120 V AC/DC	48 V DC / 100 mA	PLC-O...-120UC/48DC/100/SEN		331	2966799	2967581	2900359			X		
			230 V AC/DC	48 V DC / 100 mA	PLC-O...-230UC/48DC/100/SEN		331	2966809	2967594	2900361			X		
			120 V AC	48 V DC / 100 mA <sup>3)</sup>	PLC-B...-120UC/1/SEN/SO46		335	2980322 <sup>4)</sup>	2980364 <sup>4)</sup>	2900456 <sup>4)</sup>			X		
			230 V AC	48 V DC / 100 mA <sup>3)</sup>	PLC-B...-230UC/1/SEN/SO46		335	2980348 <sup>4)</sup>	2980380 <sup>4)</sup>	2900457 <sup>4)</sup>			X		

<sup>1)</sup> Nicht mischbar mit der Universal-Baureihe (innerhalb eines Bytes)  
<sup>1)</sup> cannot be mixed with the universal series (within a byte)

<sup>2)</sup> Steckbarer Miniaturrelaisensatz: REL-MR-60DC/21AU, 2961134  
<sup>2)</sup> Pluggable miniature relays: REL-MR-60DC/21AU, 2961134

<sup>3)</sup> Steckbarer Solid-State-Relaisensatz: OPT-60DC/48DC/100, 2966621  
<sup>3)</sup> Pluggable solid-state relays: OPT-60DC/48DC/100, 2966621

<sup>4)</sup> PLC-...SO46 wird als Grundklemme mit Filter, aber ohne Relais- oder Solid-State-Relais-Bestückung geliefert.  
<sup>4)</sup> PLC-...SO46 is supplied as a basic terminal block with filter, but without relay or solid-state relay.

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INSPIRING INNOVATIONS



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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