

# FLK 40-PA/EZ-DR/HF/KS/ 500/YUC - Front adapter



2904645

<https://www.phoenixcontact.com/pc/products/2904645>

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Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

## Your advantages

- Molded connectors
- Can be screwed on
- KS/AKB-compatible connectors on the module side
- Lateral cable outlet of the I/O module

## Commercial data

Item number	2904645
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CK222N
Catalog page	Page 514 (C-5-2019)
GTIN	4046356868419
Weight per piece (including packing)	892.5 g
Weight per piece (excluding packing)	845.7 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Product properties

Product type	Front adapter
Data management status	
Article revision	05

### Electrical properties

Operating voltage (DC)	≤ 30 V DC
Nominal operating mode	100% operating factor
Current (Per path)	≤ 500 mA (uncoiled)

#### Supported controller YOKOGAWA CS3000 CentumVP

Suitable I/O card	AAI543
	AAI141
	AAI143
	AAI835
	AAI841
	AAI135
	AAR181
	AAT141
	AAV141
	AAV142
	AAB841
	AAV542

#### Supported controller YOKOGAWA STARDOM

Suitable I/O card	NFAI543
	NFAI141
	NFAI143
	NFAI835
	NFAI841
	NFAI135
	NFAV141
	NFAV142
	NFAB841
	NFAV542

#### Supported controller YOKOGAWA ProSafe-RS

Suitable I/O card	SAI143
	SAV144
	SAI533

## Connection data

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## Connection 1

Connection in acc. with standard	based on IEC 60603-13
Connection method	Yokogawa, I/O cards compatible
Number of connections	1
Number of positions	40
Tightening torque	0.5 Nm (Screw connection)
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## Connection 2

Connection in acc. with standard	based on IEC 60603-13
Connection method	Yokogawa, KS compatible
Number of connections	1
Number of positions	40
Tightening torque	0.5 Nm (Screw connection)
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

## Dimensions

### Cable

Length	5 m
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### Cable/line

Number of positions	40
Shielded	yes
Conductor type	Assembled, shielded, halogen-free round cable
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	40x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	9.80 mm ±0.4 mm
Outer sheath, material	Halogen-free sheath
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Cable resistance	≤ 145 Ω/km
Insulation resistance	≥ 20 MΩ*km
Smallest bending radius, fixed installation	102 mm
Smallest bending radius, movable installation	184 mm
Halogen-free	yes
Flame resistance	IEC 60332-1-2 (raw cable) VDE 0842, Part 332-1-2 (raw cable) IEC 60332-3-22 (raw cable)
Resistance to oil	can withstand occasional splashes (raw cable)

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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C (fixed installation)
	-10 °C ... 70 °C (flexible installation)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m

## Approvals

### UKCA

Certificate	UKCA-compliant
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## Mounting

Mounting position	any
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## Notes

Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
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## Drawings

Connection diagram

40-pos. connector the I/O card	40-pos. connector to the module	Wire color
1	40	black
2	39	brown
3	38	red
4	37	orange
5	36	yellow
6	35	green
7	34	blue
8	33	violet
9	32	gray
10	31	white
11	30	white-black
12	29	white-brown
13	28	white-red
14	27	white-orange
15	26	white-yellow
16	25	white-green
17	24	white-blue
18	23	white-violet
19	22	white-gray
20	21	brown-black
21	20	brown-red
22	19	brown-orange
23	18	brown-yellow
24	17	brown-green
25	16	brown-blue
26	15	brown-violet
27	14	brown-gray
28	13	brown-white
29	12	green-black
30	11	green-brown
31	10	green-red
32	9	green-orange
33	8	green-blue
34	7	green-violet
35	6	green-gray
36	5	green-white
37	4	yellow-black
38	3	yellow-brown
39	2	yellow-red
40	1	yellow-orange

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2904645>



**EAC**

Approval ID: RU\*-DE.HB\*35.B00385



**UL Listed**

Approval ID: E238705

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	125 V	0.5 A	-	-



**cUL Listed**

Approval ID: E238705

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	125 V	0.5 A	-	-

**cULus Listed**

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## Classifications

### ECLASS

ECLASS-11.0	27242292
ECLASS-13.0	27242292
ECLASS-12.0	27242292

### ETIM

ETIM 9.0	EC002584
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstraße 8  
D-32825 Blomberg  
+49 (0) 5235-3 00  
[info@phoenixcontact.com](mailto:info@phoenixcontact.com)