

https://www.phoenixcontact.com/pc/products/2904739

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Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m

## Your advantages

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

## Commercial data

Item number	2904739
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	4046356882897
Weight per piece (including packing)	312.5 g
Weight per piece (excluding packing)	312.5 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
lectrical 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	ADV151
	ADV551
Supported controller YOKOGAWA STARDOM	
Suitable I/O card	NFDV151
	NFDV551
Supported controller YOKOGAWA ProSafe-RS	
Suitable I/O card	SDV541
	SDV144
	SDV521

### Connection data

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	50
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	50
Tightening torque	0.5 Nm (Screw connection)
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

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#### Dimensions

ble	
Length	1 m
le/line	
<i>e/IIIe</i>	
Number of positions	50
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	50x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.03 mm
External cable diameter	11.00 mm ±0.4 mm
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Smallest bending radius, fixed installation	114 mm
Smallest bending radius, movable installation	205 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)

#### 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		
Mounting			
Mounting position	any		
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		

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instructions of the respective third-party manufacturer must also be met.

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## Drawings

#### Connection diagram

50-pos. connector to the I/O card50-pos. connector to the moduleWire color150black249brown348red447orange546yellow645green744blue843violet942gray1041white-black1140white-black1239white-red1338white-red1437white-orange1536white-yellow1635white-yellow1833white-violet1932white-gray2031brown-black2130brown-red2229brown-orange2328brown-vellow2427brown-gray2526brown-vlolet2724brown-white2922green-brown3120green-brown3318green-blue3417green-blue3516green-gray3615green-white3714yellow-black3813yellow-blue447yellow-blue456gray-brown3714gellow-blue483gray-red492gray-plow501gray-red <th></th> <th></th> <th>0 -</th>			0 -
connector to the I/O cardconnector to the moduleWire color150black249brown348red447orange546yellow645green744blue843violet942gray1041white1140white-black1239white-brown1338white-red1437white-green1536white-green1734white-green1734white-green1833white-violet1932white-green2031brown-red2130brown-green2526brown-yellow2427brown-green2526brown-violet2625brown-white2922green-blue3120green-red3219green-orange3318green-blue3417green-white3516green-gray3615green-white3714yellow-blue4110yellow-blue429yellow-violet447yellow-white37447483gray-red483gray-red492gray-black	50-pos.	50-pos.	
the I/O card         the module         the solution           1         50         black           2         49         brown           3         48         red           4         47         orange           5         46         yellow           6         45         green           7         44         blue           8         43         violet           9         42         gray           10         41         white-black           11         40         white-brown           13         38         white-red           14         37         white-green           17         34         white-yellow           16         35         white-green           17         34         white-spreen           17         34         white-gray           20         31         brown-black           21         30         brown-red           22         29         brown-yellow           24         27         brown-blue           26         25         brown-white           30         21         green-b	•	-	Wire color
1         50         black           2         49         brown           3         48         red           4         47         orange           5         46         yellow           6         45         green           7         44         blue           8         43         violet           9         42         gray           10         41         white           11         40         white-black           12         39         white-black           13         38         white-red           14         37         white-green           17         34         white-green           17         34         white-gray           20         31         brown-black           21         30         brown-orange           23         28         brown-orange           23         28         brown-blue           26         25         brown-blue           26         25         brown-white           29         22         green-brown           31         20         green-crange			wire color
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4         47         orange           5         46         yellow           6         45         green           7         44         blue           8         43         violet           9         42         gray           10         41         white           11         40         white-black           12         39         white-brown           13         38         white-red           14         37         white-green           15         36         white-yellow           16         35         white-green           17         34         white-blue           18         33         white-greay           20         31         brown-black           21         30         brown-orange           23         28         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-brown           31         20         green-black           30         21         green-blue           34         17         green-wh	—		
5         46         yellow           6         45         green           7         44         blue           8         43         violet           9         42         gray           10         41         white           11         40         white-black           12         39         white-brown           13         38         white-pred           14         37         white-orange           15         36         white-yellow           16         35         white-orange           17         34         white-green           17         34         white-gray           20         31         brown-black           21         30         brown-orange           23         28         brown-violet           26         25         brown-white           29         22         green-brown           31         20         green-red           32         19         green-orange           33         18         green-blue           34         17         green-white           35         16 <td< td=""><td>•</td><td></td><td></td></td<>	•		
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8         43         violet           9         42         gray           10         41         white           11         40         white-black           12         39         white-brown           13         38         white-red           14         37         white-orange           15         36         white-green           17         34         white-olue           18         33         white-yellow           18         33         white-yellow           19         32         white-gray           20         31         brown-black           21         30         brown-red           22         29         brown-orange           23         28         brown-green           25         26         brown-spreen           26         25         brown-white           29         22         green-black           30         21         green-orange           33         18         green-orange           33         18         green-violet           35         16         green-spray           36         <	-		-
9         42         gray           10         41         white           11         40         white-black           12         39         white-brown           13         38         white-red           14         37         white-orange           15         36         white-grage           16         35         white-lue           18         33         white-violet           19         32         white-gray           20         31         brown-black           21         30         brown-gray           22         29         brown-orange           23         28         brown-green           25         26         brown-sidet           26         25         brown-white           29         22         green-black           30         21         green-brown           31         20         green-orange           33         18         green-blue           34         17         green-blue           35         16         green-white           36         15         green-white           37         <	-		
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12         39         white-brown           13         38         white-red           14         37         white-orange           15         36         white-yellow           16         35         white-green           17         34         white-blue           18         33         white-violet           19         32         white-greay           20         31         brown-black           21         30         brown-orange           23         28         brown-orange           24         27         brown-gray           25         26         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-brown           31         20         green-red           32         19         green-violet           33         18         green-violet           34         17         green-white           35         16         green-gray           36         15         green-white           37         14         yellow-brown <t< td=""><td>11</td><td>40</td><td>white-black</td></t<>	11	40	white-black
14       37       white-orange         15       36       white-yellow         16       35       white-green         17       34       white-blue         18       33       white-violet         19       32       white-gray         20       31       brown-black         21       30       brown-orange         23       28       brown-orange         24       27       brown-green         25       26       brown-violet         27       24       brown-gray         28       23       brown-white         29       22       green-black         30       21       green-black         30       21       green-black         30       21       green-black         30       21       green-blue         31       20       green-violet         32       19       green-orange         33       18       green-blue         34       17       green-white         35       16       green-white         36       15       green-white         37       14       yellow-b	12	39	
15         36         white-yellow           16         35         white-green           17         34         white-blue           18         33         white-violet           19         32         white-gray           20         31         brown-black           21         30         brown-ved           22         29         brown-orange           23         28         brown-green           25         26         brown-blue           26         25         brown-wilte           27         24         brown-gray           28         23         brown-white           29         22         green-blue           30         21         green-brown           31         20         green-orange           33         18         green-orange           33         18         green-violet           35         16         green-white           36         15         green-white           37         14         yellow-brown           38         13         yellow-crange           41         10         yellow-orange	13	38	white-red
16         35         white-green           17         34         white-blue           18         33         white-violet           19         32         white-gray           20         31         brown-black           21         30         brown-red           22         29         brown-gray           23         28         brown-green           25         26         brown-green           26         25         brown-wile           26         25         brown-white           29         22         green-black           30         21         green-brown           31         20         green-red           32         19         green-orange           33         18         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-brown           39         12         yellow-orange           41         10         yellow-orange           41         10         yellow-red           40         11         yellow-orange <td< td=""><td>14</td><td>37</td><td>white-orange</td></td<>	14	37	white-orange
16         35         white-green           17         34         white-blue           18         33         white-loue           19         32         white-gray           20         31         brown-black           21         30         brown-red           22         29         brown-orange           23         28         brown-green           25         26         brown-spreen           26         25         brown-wile           26         25         brown-wile           26         25         brown-white           29         22         green-black           30         21         green-brown           31         20         green-orange           33         18         green-orange           33         18         green-violet           35         16         green-white           37         14         yellow-brown           38         13         yellow-orange           41         10         yellow-orange           41         10         yellow-orange           41         10         yellow-orange	15	36	white-yellow
1833white-violet1932white-gray2031brown-black2130brown-red2229brown-orange2328brown-yellow2427brown-green2526brown-violet2724brown-violet2724brown-white2922green-black3021green-brown3120green-brown3318green-blue3417green-violet3516green-gray3615green-white3714yellow-brown3912yellow-crange4110yellow-crange4110yellow-brown429yellow-violet438yellow-white456gray-black465gray-black465gray-black474gray-red483gray-red492gray-yellow	16	35	-
19         32         white-gray           20         31         brown-black           21         30         brown-red           22         29         brown-orange           23         28         brown-yellow           24         27         brown-green           25         26         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-black           30         21         green-black           30         21         green-brown           31         20         green-blue           32         19         green-orange           33         18         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-brown           39         12         yellow-orange           41         10         yellow-red           40         11         yellow-orange           41         10         yellow-white           42         9         yellow-white	17	34	white-blue
20         31         brown-black           21         30         brown-red           22         29         brown-orange           23         28         brown-yellow           24         27         brown-green           25         26         brown-violet           26         25         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-black           30         21         green-brown           31         20         green-blue           32         19         green-orange           33         18         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-brown           39         12         yellow-cradge           40         11         yellow-cradge           41         10         yellow-white           42         9         yellow-violet           43         8         yellow-white           45         6         gray-black	18	33	white-violet
21         30         brown-red           22         29         brown-orange           23         28         brown-yellow           24         27         brown-green           25         26         brown-blue           26         25         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-black           30         21         green-brown           31         20         green-red           32         19         green-orange           33         18         green-violet           35         16         green-white           37         14         yellow-brown           38         13         yellow-red           40         11         yellow-orange           41         10         yellow-orange           43         8         yellow-white           45         6         gray-black           46         5         gray-black           46         5         gray-red           48         3         gray-orange           49 <td>19</td> <td>32</td> <td>white-gray</td>	19	32	white-gray
22       29       brown-orange         23       28       brown-yellow         24       27       brown-green         25       26       brown-blue         26       25       brown-violet         27       24       brown-gray         28       23       brown-white         29       22       green-black         30       21       green-brown         31       20       green-red         32       19       green-orange         33       18       green-violet         34       17       green-white         35       16       green-white         36       15       green-white         37       14       yellow-brown         38       13       yellow-red         40       11       yellow-orange         41       10       yellow-orange         41       10       yellow-white         43       8       yellow-white         45       6       gray-black         46       5       gray-black         46       5       gray-red         48       3       gray-orange <td>20</td> <td>31</td> <td>brown-black</td>	20	31	brown-black
23         28         brown-yellow           24         27         brown-green           25         26         brown-blue           26         25         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-black           30         21         green-brown           31         20         green-red           32         19         green-orange           33         18         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-brown           39         12         yellow-brown           39         12         yellow-crange           41         10         yellow-crange           41         10         yellow-violet           43         8         yellow-white           45         6         gray-black           46         5         gray-brown           47         4         gray-orange           49         2         gray-yellow	21	30	brown-red
24         27         brown-green           25         26         brown-blue           26         25         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-black           30         21         green-brown           31         20         green-orange           33         18         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-brown           39         12         yellow-brown           39         12         yellow-orange           41         10         yellow-orange           41         10         yellow-violet           42         9         yellow-violet           43         8         yellow-white           45         6         gray-black           46         5         gray-brown           47         4         gray-red           48         3         gray-orange           49         2         gray-yellow	22	29	brown-orange
25         26         brown-blue           26         25         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-black           30         21         green-brown           31         20         green-orange           33         18         green-lue           34         17         green-yolet           35         16         green-gray           36         15         green-white           37         14         yellow-black           38         13         yellow-orange           41         10         yellow-cred           40         11         yellow-sorange           41         10         yellow-violet           42         9         yellow-violet           43         8         yellow-white           45         6         gray-black           46         5         gray-black           46         5         gray-red           48         3         gray-orange           49         2         gray-yellow	23	28	brown-yellow
26         25         brown-violet           27         24         brown-gray           28         23         brown-white           29         22         green-black           30         21         green-brown           31         20         green-red           32         19         green-orange           33         18         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-black           38         13         yellow-cred           40         11         yellow-crange           41         10         yellow-sorange           41         10         yellow-white           42         9         yellow-white           43         8         yellow-white           45         6         gray-black           46         5         gray-black           46         5         gray-red           48         3         gray-orange           49         2         gray-yellow	24	27	brown-green
27       24       brown-gray         28       23       brown-white         29       22       green-black         30       21       green-brown         31       20       green-brown         32       19       green-orange         33       18       green-violet         35       16       green-gray         36       15       green-white         37       14       yellow-black         38       13       yellow-cred         40       11       yellow-crange         41       10       yellow-violet         42       9       yellow-violet         43       8       yellow-white         44       7       yellow-white         45       6       gray-black         46       5       gray-brown         47       4       gray-red         48       3       gray-orange         49       2       gray-yellow	25	26	brown-blue
28         23         brown-white           29         22         green-black           30         21         green-brown           31         20         green-brown           32         19         green-orange           33         18         green-violet           34         17         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-black           38         13         yellow-brown           39         12         yellow-red           40         11         yellow-orange           41         10         yellow-orange           42         9         yellow-violet           43         8         yellow-blue           42         9         yellow-white           43         8         yellow-white           45         6         gray-black           46         5         gray-black           46         5         gray-black           46         5         gray-black           48         3         gray-red           48 </td <td>26</td> <td>25</td> <td>brown-violet</td>	26	25	brown-violet
29         22         green-black           30         21         green-brown           31         20         green-red           32         19         green-orange           33         18         green-blue           34         17         green-violet           35         16         green-white           37         14         yellow-black           38         13         yellow-brown           39         12         yellow-orange           41         10         yellow-orange           43         8         yellow-violet           43         8         yellow-white           45         6         gray-black           46         5         gray-black           47         4         gray-red           48         3         gray-orange           49		24	brown-gray
30         21         green-brown           31         20         green-red           32         19         green-orange           33         18         green-blue           34         17         green-wielet           35         16         green-white           37         14         yellow-black           38         13         yellow-brown           39         12         yellow-orange           41         10         yellow-blue           42         9         yellow-violet           43         8         yellow-white           45         6         gray-black           46         5         gray-black           46         3         gray-red           48         3         gray-orange           49         2         gray-yellow		-	brown-white
31         20         green-red           32         19         green-orange           33         18         green-blue           34         17         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-brown           39         12         yellow-brown           39         12         yellow-orange           41         10         yellow-violet           43         8         yellow-white           45         6         gray-black           46         5         gray-brown           47         4         gray-red           48         3         gray-orange           49         2         gray-yellow	29	22	green-black
32         19         green-orange           33         18         green-blue           34         17         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-brown           39         12         yellow-brown           39         12         yellow-orange           41         10         yellow-violet           43         8         yellow-white           45         6         gray-black           46         5         gray-brown           47         4         gray-red           48         3         gray-orange           49         2         gray-yellow	30	21	green-brown
33         18         green-blue           34         17         green-violet           35         16         green-gray           36         15         green-white           37         14         yellow-black           38         13         yellow-brown           39         12         yellow-cred           40         11         yellow-orange           41         10         yellow-blue           42         9         yellow-violet           43         8         yellow-gray           44         7         yellow-white           45         6         gray-black           46         5         gray-black           47         4         gray-red           48         3         gray-orange           49         2         gray-yellow			
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https://www.phoenixcontact.com/pc/products/2904739

## Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2904739

EAC	EAC Approval ID: RU*-DE.HB*3	35.B00385			
	<b>UL Listed</b> Approval ID: E238705				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		125 V	0.5 A	-	-
•	<b>cUL Listed</b> Approval ID: E238705				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		125 V	0.5 A	-	-

cULus Listed

2904739

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## Classifications

#### ECLASS

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

### ETIM

	ETIM 9.0	EC002584		
UN	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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