

Data sheet | Item number: 704-2004

Interface module for system wiring; Pluggable connector per DIN 41651;
Male connector; 20-pole; 16-channel digital input or output; 1-wire
connection; in mounting carrier

www.wago.com/704-2004



Data

Electrical data

| | |
|---------------------------|---|
| Inputs/outputs | 16-channel digital input or output |
| Circuit type | 1-wire connection 1-cond. connection |
| Nominal operating voltage | DC 24 V |
| Operating voltage range | ±10 % |

Subject to changes. Please also observe the further product documentation!

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| | |
|---|--|
| Current consumption (status indication) | 5 mA |
| Total current | 2 A |
| Limiting continuous current | 1 A |
| Status indicator | Green LED (channel) Yellow LED (power supply) |
| Internal fuse | 2 A |

Safety and protection

| | |
|---------------------|--------|
| Rated voltage | 50 V |
| Rated surge voltage | 0.8 kV |
| Pollution degree | 2 |

Compatibility

Siemens

| | |
|----------------|---------------------------|
| Siemens S7-300 | 6ES7 313-5BE01-0AB0 |
| | 6ES7 313-5BG04-0AB0 |
| | 6ES7 313-6BE01-0AB0 |
| | 6ES7 313-6BF03-0AB0 |
| | 6ES7 313-6CE01-0AB0 |
| | 6ES7 313-6CF03-0AB0 |
| | 6ES7 314-6BF01-0AB0 |
| | 6ES7 314-6BG03-0AB0 |
| | 6ES7 314-6CF01-0AB0 |
| | 6ES7 314-6CG03-0AB0 |
| | 6ES7 321-1BH02-0AA0 |
| | 6ES7 321-1BH10-0AA0 |
| | 6ES7 321-1BH80-0AA0 |
| | 6ES7 321-1BL00-0AA0 |
| | 6ES7 321-1BL80-0AA0 |
| | 6ES7 321-1BP00-0AA0 |
| | 6ES7 321-7BH01-0AB0 |
| | 6ES7 321-7BH80-0AA0 |
| | 6ES7 322-1BH01-0AA0 |
| | 6ES7 322-1BH10-0AA0 |
| | 6ES7 322-1BH80-0AA0 |
| | 6ES7 322-1BL00-0AA0 |
| | 6ES7 322-1BP00-0AA0 |
| | 6ES7 322-1EH01-0AA0 |
| | 6ES7 322-8BH01/8BH10-0AB0 |
| | 6ES7 323-1BL00-0AA0 |
| | 6ES7 326-1BK01-0AB0 |
| | 6ES7 326-1RF00-0AB0 |

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| | |
|----------------|--|
| Siemens S7-400 | 6ES7 421-1BL01-0AA0 6ES7 421-7BH01-0AB0 6ES7 422-1BL00-0AA0 6ES7 422-7BL00-0AB0 |
|----------------|--|

| | |
|-----------------|---|
| Siemens S7-1500 | 6ES7 511-1CK00-0AB0 6ES7 512-1CK00-0AB0 6ES7 521-1BH00-0AA0 6ES7 521-1BH10-0AA0 6ES7 521-1BL00-0AB0 6ES7 521-1BL10-0AA0 6ES7 521-1BP00-0AA0 6ES7 522-1BH00-0AB0 6ES7 522-1BH01-0AB0 6ES7 522-1BH10-0AA0 6ES7 522-1BL00-0AB0 6ES7 522-1BL01-0AB0 6ES7 522-1BL10-0AA0 6ES7 522-1BP00-0AA0 6ES7 523-1BL00-0AA0 |
|-----------------|---|

| | |
|-----------------|--|
| Siemens ET200SP | 6ES7 131-6BH01-0BA0 6ES7 131-6BH01-2BA0 6ES7 132-6BH00-0AA0 6ES7 132-6BH00-2AA0 6ES7 132-6BH01-0BA0 6ES7 132-6BH01-2BA0 |
|-----------------|--|

GE Fanuc

| | |
|---------------|--|
| GE Fanuc 9030 | IC693 MDL241 IC693 MDL640 IC693 MDL643 IC693 MDL645 IC693 MDL646 IC693 MDL655 IC693 MDL740 IC693 MDL742 IC693 MDL753 |
|---------------|--|

| | |
|---------------|------------------------------|
| GE Fanuc RX3i | IC694 MDL655 IC694 MDL753 |
|---------------|------------------------------|

Schneider

| | |
|-----------------------|---|
| Schneider Modicon TM3 | TM3 DI16(G) TM3 DI16K TM3 DI32K TM3 DQ16T(G) |
|-----------------------|---|

Subject to changes. Please also observe the further product documentation!



| | |
|---------------------------|--|
| | TM3 DQ16TK TM3 DQ32TK |
| Schneider Modicon M340 | BMX DDI 1602 BMX DDI 3202K BMX DDI 6402K BMX DDO 1602 BMX DDO 3202K BMX DDO 6402K BMX DDM 3202K |
| Schneider Modicon Quantum | 140 DDI 353 00 140 DDI 364 00 140 DDO 353 00 140 DDO 353 01 140 DDO 364 00 140 DDM 390 00 140 DSI 353 00 140 DVO 853 00 |
| Schneider TSX | TSX DEY 16D2 TSX DEY 16FK TSX DEY 32D2K TSX DEY 64D2K TSX DMY 28FK TSX DMY 28RFK TSX DSY 16T2 TSX DSY 32T2K TSX DSY 64T2K TSX DMZ 28DT TSX DMZ 28DTK TSX DMZ 64DTK TSX DSZ 32T2 TSX DEZ 12D2K TSX DEZ 32D2 |
| Schneider Twido | TM2 DDI 16DK TM2 DDI 32DK TM2 DDO 16TK TM2 DDO 32TK |
| Rockwell | |
| Rockwell Compact Logix | 1769 - IQ16 1769 - IQ16F 1769 - IQ32 1769 - IQ32T 1769 - OB16 1769 - OB16P 1769 - OB32 1769 - OB32T |

Subject to changes. Please also observe the further product documentation!



| | |
|------------------------|-----------------|
| Rockwell Control Logix | 1756 - IB16I |
| | 1756 - IB16ISOE |
| | 1756 - IB32 |
| | 1756 - OB16E |
| | 1756 - OB16I |
| | 1756 - OB16IS |
| | 1756 - OB32 |

Omron

| | |
|------------|------------|
| Omron CJ1W | CJ1W-ID211 |
| | CJ1W-ID231 |
| | CJ1W-ID232 |
| | CJ1W-ID261 |
| | CJ1W-ID262 |
| | CJ1W-IDP01 |
| | CJ1W-INT01 |
| | CJ1W-MD232 |
| | CJ1W-OD212 |
| | CJ1W-OD232 |
| | CJ1W-OD262 |

WAGO

| | |
|---------------------|----------|
| WAGO I/O System 750 | 750-1400 |
| | 750-1500 |
| | 750-1502 |

| | |
|---------------------|--------------|
| WAGO I/O System 753 | 753-430 (x2) |
| | 753-431 (x2) |
| | 753-530 (x2) |

Connection data

Connection 1

| | |
|--------------------------------|-------------------------------------|
| Connector | DIN 41651 connector; male connector |
| Pole number 1 | 20 |
| Connection type 1 | System |
| Note (conductor cross-section) | 12 AWG: THHN, THWN |
| Mating direction | vertical |

Connection 2

| | |
|---------------|-----------------------------------|
| Design 2 | PCB terminal blocks (double-deck) |
| Pole number 2 | 16 |

Subject to changes. Please also observe the further product documentation!

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| | |
|---------------------------|--|
| Connection type 2 | Field |
| WAGO connector 2 | WAGO 736 Series |
| Solid conductor 2 | 0.08 ... 2.5 mm ² / 28 ... 12 AWG |
| Fine-stranded conductor 2 | 0.08 ... 2.5 mm ² / 28 ... 12 AWG |
| Strip length 2 | 5 ... 6 mm / 0.2 ... 0.24 inches |

Connection 3

| | |
|---------------------------|--|
| Design 3 | PCB terminal blocks (double-deck) |
| Pole number 3 | 6 |
| Connection type 3 | Power supply |
| WAGO connector 3 | WAGO 736 Series |
| Solid conductor 3 | 0.08 ... 2.5 mm ² / 28 ... 12 AWG |
| Fine-stranded conductor 3 | 0.08 ... 2.5 mm ² / 28 ... 12 AWG |
| Strip length 3 | 5 ... 6 mm / 0.2 ... 0.24 inches |

Physical data

| | |
|-----------------------------------|----------------------|
| Width | 55 mm / 2.165 inches |
| Height | 85 mm / 3.346 inches |
| Depth from upper-edge of DIN-rail | 50 mm / 1.969 inches |

Mechanical Data

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|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

Material Data

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|-----------|----------|
| Fire load | 1.474 MJ |
| Weight | 80 g |

Environmental requirements

| | |
|---------------------------------|----------------------|
| Ambient temperature (operation) | -20 ... +50 °C |
| Ambient temperature (storage) | -40 ... +70 °C |
| Relative humidity | 85% (non-condensing) |

Commercial data

| | |
|---------------|------------------|
| Product Group | 30 (WAGO France) |
| eCl@ss 10.0 | 27-14-11-52 |
| eCl@ss 9.0 | 27-14-11-52 |

Subject to changes. Please also observe the further product documentation!



| | |
|-----------------------|---------------|
| ETIM 8.0 | EC002780 |
| ETIM 7.0 | EC002780 |
| Recupel Type | |
| PU (SPU) | 1 pcs |
| Packaging type | box |
| Country of origin | FR |
| GTIN | 4050821161998 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

| | |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

Optional accessories

Cables and pluggable connectors

| System cable | |
|---|--|
| Item no.: 706-2300/301-300 System cable; for Siemens S7-300; 2 x 16 digital inputs or outputs; Length: 3 m; Conductor cross-section: 0.14 mm ² | www.wago.com/706-2300/301-300 |
| Item no.: 706-2300/301-200 System cable; for Siemens S7-300; 2 x 16 digital inputs or outputs; Length: 2 m; Conductor cross-section: 0.14 mm ² | www.wago.com/706-2300/301-200 |
| Item no.: 706-2300/100-200 System cable; for Siemens S7-300; 2 x 16 digital inputs; Length: 2 m; Conductor cross-section: 0.34 mm ² | www.wago.com/706-2300/100-200 |
| Item no.: 706-2300/200-100 System cable; for Siemens S7-300; 2 x 16 digital outputs; Length: 1 m; Conductor cross-section: 0.14 mm ² | www.wago.com/706-2300/200-100 |
| Item no.: 706-2300/100-100 System cable; for Siemens S7-300; 2 x 16 digital inputs; Length: 1 m; Conductor cross-section: 0.34 mm ² | www.wago.com/706-2300/100-100 |
| Item no.: 706-2300/100-300 System cable; for Siemens S7-300; 2 x 16 digital inputs; Length: 3 m; Conductor cross-section: 0.34 mm ² | www.wago.com/706-2300/100-300 |
| Item no.: 706-2300/101-200 System cable; for Siemens S7-300; 16 digital inputs; Length: 2 m; Conductor cross-section: 0.34 mm ² | www.wago.com/706-2300/101-200 |
| Item no.: 706-2300/200-300 System cable; for Siemens S7-300; 2 x 16 digital outputs; Length: 3 m; Conductor cross-section: 0.14 mm ² | www.wago.com/706-2300/200-300 |

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Item no.: 706-2300/101-300
System cable; for Siemens S7-300; 16 digital inputs; Length: 3 m; Conductor cross-section: 0.34 mm² www.wago.com/706-2300/101-300

Item no.: 706-2300/200-200
System cable; for Siemens S7-300; 2 x 16 digital outputs; Length: 2 m; Conductor cross-section: 0.14 mm² www.wago.com/706-2300/200-200

Item no.: 706-2300/300-100
System cable; for Siemens S7-300; 16 digital inputs or outputs; Length: 1 m; Conductor cross-section: 0.14 mm² www.wago.com/706-2300/300-100

Item no.: 706-2300/101-100
System cable; for Siemens S7-300; 16 digital inputs; Length: 1 m; Conductor cross-section: 0.34 mm² www.wago.com/706-2300/101-100

Item no.: 706-2300/301-100
System cable; for Siemens S7-300; 2 x 16 digital inputs or outputs; Length: 1 m; Conductor cross-section: 0.14 mm² www.wago.com/706-2300/301-100

Item no.: 706-2300/300-200
System cable; for Siemens S7-300; 16 digital inputs or outputs; Length: 2 m; Conductor cross-section: 0.14 mm² www.wago.com/706-2300/300-200

Item no.: 706-2300/300-300
System cable; for Siemens S7-300; 16 digital inputs or outputs; Length: 3 m; Conductor cross-section: 0.14 mm² www.wago.com/706-2300/300-300

Item no.: 706-7753/301-200
System cable; for WAGO-I/O-SYSTEM, 753 Series; 2 x 16 digital inputs or outputs; Length: 2 m; Conductor cross-section: 0.14 mm² www.wago.com/706-7753/301-200

Connecting cable

Item no.: 706-100/1300-200
Connection cable; 20-pole; Pluggable connector per DIN 41651; open-ended; Length: 2 m; Conductor cross-section: 0.14 mm²; UR components www.wago.com/706-100/1300-200

Item no.: 706-100/1300-400
Connection cable; 20-pole; Pluggable connector per DIN 41651; open-ended; Length: 4 m; Conductor cross-section: 0.14 mm²; UR components www.wago.com/706-100/1300-400

Marking accessories

Marking strip

Item no.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white www.wago.com/2009-110

Item no.: 709-196
Marking strips; for laser printer; translucent www.wago.com/709-196

Item no.: 709-178
Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white www.wago.com/709-178

Item no.: 709-177

Subject to changes. Please also observe the further product documentation!

Downloads Documentation

Bid Text

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|-------------------------|--------------|---------------|----------|
| 704-2004 X81 - Datei | 2019 年2月19 日 | xml 3.9 kB | Download |
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|-------------------------|---------------|----------------|----------|
| 704-2004 doc - Datei | 2015 年11月20 日 | doc 26.1 kB | Download |
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Additional Information

| | | | |
|---|-------------------------|---------------|----------|
| Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging | V 1.1.0 2022 年8月18 日 | pdf 2.2 MB | Download |
|---|-------------------------|---------------|----------|

System Description

| | | | |
|---|--|-----------------|----------|
| WAGO System Wiring, Selection Guide This guide will help you select the appropriate interface modules and system cables for the controller you are usng. | | pdf 545.9 kB | Download |
|---|--|-----------------|----------|

CAD/CAE-Data

CAD data

| | | | |
|-----------------------|--|-----|----------|
| 2D/3D Models 704-2004 | | URL | Download |
|-----------------------|--|-----|----------|

CAE data

| | | | |
|----------------------------|--|-----|----------|
| EPLAN Data Portal 704-2004 | | URL | Download |
|----------------------------|--|-----|----------|

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|-------------------------|--|-----|----------|
| WSCAD Universe 704-2004 | | URL | Download |
|-------------------------|--|-----|----------|

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|-----------------------|--|-----|----------|
| ZUKEN Portal 704-2004 | | URL | Download |
|-----------------------|--|-----|----------|

Environmental Product Compliance

Compliance Search

| | | | |
|---|--|-----|----------|
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Interface module for system wiring; Pluggable connector per DIN 41651; Male connector; 20-pole; 16-channel digital input or output; 1-wire connection; in mounting carrier

Installation Notes

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