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WAGO System Wiring

Overview and Application Examples

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Interface Modules for System Wiring

704 Series
Interface Adapters, 857 Series

392 - 400
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WAGO Interface Cables, 706 Series

for 289, 704 Series
for Interface Adapters, 857 Series

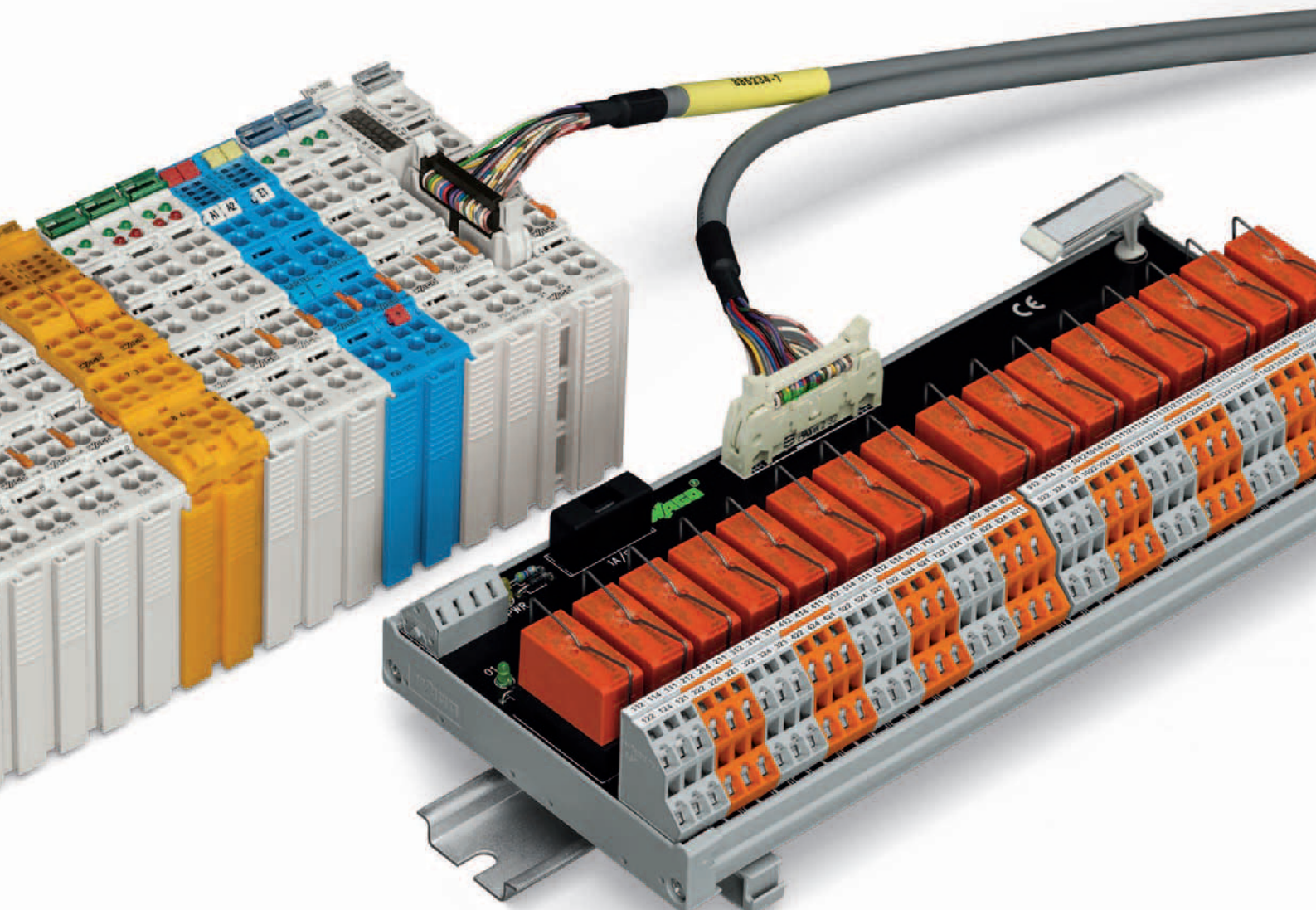
404 - 411
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16-Channel I/O Module with Interface Module

The new 750-14xx and 750-15xx Series I/O Modules with cable connection acc to DIN 41651 offer 16 digital channels in a module less than 1/2 inch (12mm) wide. Offering quick connections and a space-efficient design, the DIN-rail mount interface modules simplify installation in confined areas and relocate the termination point. When combined with WAGO interface modules (e.g., item no. 289-614, 289-611), a switch cabinet can be pre-wired before install to minimize wiring time and errors. This is beneficial as wiring

can be performed independently of a plant's construction. Pre-wired electronics can be installed right before start-up, saving valuable time during final stages of project completion. The modules are also ideal for connecting series machines or relay modules tasked with the higher loads common to buildings and industrial applications. The interface module also combines the advantages of relays (e.g., manual operation or rapid replacement with socked-mounted versions) with the benefits of a modern I/O system. Another ideal application would be the integration of pneumatic controllers into a fieldbus network.

Most pneumatic modules have an appropriate connector and can be controlled by the WAGO-I/O-SYSTEM. Five variants are available: two 16-channel input or output modules (one high-side and one low-side switching variant), as well as a version combining 8 inputs and 8 outputs.



Application Examples		
WAGO-I/O-SYSTEM 753	WAGO Interface Cables	WAGO Interface Modules
		
753-430 (x2), 16 DI	WAGO-753 T8ES, 2 m long 706-7753/301-200	T16ES 704-2004

WAGO-I/O-SYSTEM 753		WAGO Interface Cables		WAGO Interface Modules		
	I/O Modules	Item No.	pcs	Type	pcs	
DI	753-430 (x1)	8 DI	706-7753/300-XXX	1	T8ES	1
	753-430 (x2)	16 DI	706-7753/301-XXX	1	T16ES	1
	753-431 (x1)	8 DI	706-7753/300-XXX	1	T8ES	1
	753-431 (x2)	16 DI	706-7753/301-XXX	1	T16ES	1
DO	753-530 (x1)	8 DO	706-7753/300-XXX	1	T8ES/T8S	1
	753-530 (x2)	16 DO	706-7753/301-XXX	1	T16ES/T16S	1

Overview over cables and interface modules see page 389

WAGO-I/O-SYSTEM 750		WAGO Interface Cables		WAGO Interface Modules		
	I/O Modules	Item No.	pcs	Type	pcs	
DI	750-1400	16 DI	706-3057/300-XXX	1	T16ES	1
DO	750-1500	16 DO	706-3057/300-XXX	1	T16ES	1
DI/DO	750-1502	8 DI/8 DO	706-7753/302-XXX	1	T8ES/T8S	1/1
	750-1502	8 DI/8 DO	706-3057/300-XXX	1	T16ES	1

Overview over cables and interface modules see page 389

WAGO System Wiring

Overview and Application Examples

SIEMENS S7-300			WAGO Interface Cables		WAGO Interface Modules	
			Item No.	pcs	Type	pcs
CPU	6ES7 313-5BE01-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
	6ES7 313-5BF03-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
	6ES7 313-6BE01-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
	6ES7 313-6BF03-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
	6ES7 313-6CE01-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
	6ES7 313-6CF03-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
	6ES7 314-6BF01-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
	6ES7 314-6BG03-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
	6ES7 314-6CF01-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1
6ES7 314-6CG03-0AB0	16 DI/16 DO	706-2300/301-XXX	1	T16ES/T16S	1/1	
DI	6ES7 321-1BH02-0AA0	16 DI	706-2300/300-XXX	1	T16ES	1
	6ES7 321-1BH10-0AA0	16 DI	706-2300/300-XXX	1	T16ES	1
	6ES7 321-1BH80-0AA0	16 DI	706-2300/300-XXX	1	T16ES	1
	6ES7 321-1BL00-0AA0	32 DI	706-2300/301-XXX	1	T16ES	2
	6ES7 321-1BL80-0AA0	32 DI	706-2300/301-XXX	1	T16ES	2
	6ES7 321-1BP00-0AA0	64 DI	706-2300/100-XXX	2	T16ES	4
	6ES7 321-7BH01-0AA0	16 DI	706-2300/101-XXX	1	T16ES	1
	6ES7 321-7BH80-0AA0	16 DI	706-2300/101-XXX	1	T16ES	1
DO	6ES7 322-1BH01-0AA0	16 DO	706-2300/300-XXX	1	T16ES /T16S	1
	6ES7 322-1BH10-0AA0	16 DO	706-2300/300-XXX	1	T16ES /T16S	1
	6ES7 322-1BH80-0AA0	16 DO	706-2300/300-XXX	1	T16ES /T16S	1
	6ES7 322-1BL00-0AA0	32 DO	706-2300/301-XXX	1	T16ES /T16S	2
	6ES7 322-1BP00-0AA0	64 DO	706-2300/200-XXX	2	T16ES /T16S	4
	6ES7 322-1EH01-0AA0	16 DO	706-2300/300-XXX	1	T16ES /T16S	1
	6ES7 322-8BF00-0AB0	8 DO	706-2300/201-XXX	1	T8ES /T8S	1
AI	6ES7 331-7HF01-0AB0	8 AI	706-2300/400-XXX	1	A8ES	1
	6ES7 331-7KF02-0AB0	8 AI	706-2300/400-XXX	1	A8ES	1
	6ES7 331-7NF00-0AB0	8 AI	706-2300/404-XXX	1	A8ES	1
	6ES7 331-7NF10-0AB0	8 AI	706-2300/406-XXX	1	A8ES	1
	6ES7 331-7SF00-0AB0	8 AI	706-2300/400-XXX	1	A8ES	1
	6ES7 331-7TF00-0AB0	8 AI	706-2300/400-XXX	1	A8ES	1
AO	6ES7 332-5HB01-0AB0	2 AO	706-2300/400-XXX	1	A4ES	1
	6ES7 332-5HB81-0AB0	2 AO	706-2300/400-XXX	1	A4ES	1
	6ES7 332-5HD01-0AB0	4 AO	706-2300/404-XXX	1	A4ES	1
	6ES7 332-5HF00-0AB0	8 AO	706-2300/406-XXX	1	A8ES	1
	6ES7 332-7ND02-0AB0	4 AO	706-2300/400-XXX	1	A4ES	1
	6ES7 332-8TF00-0AB0	8 AO	706-2300/400-XXX	1	A8ES	1

System Wiring for

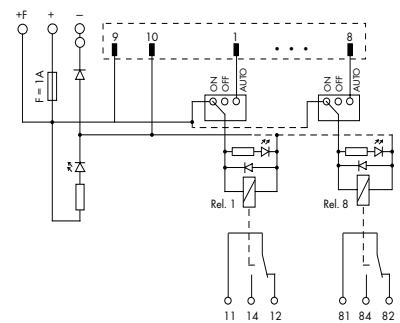
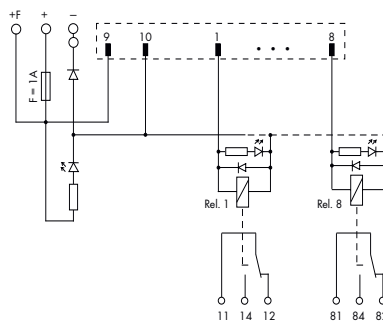
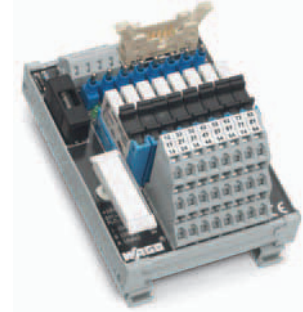
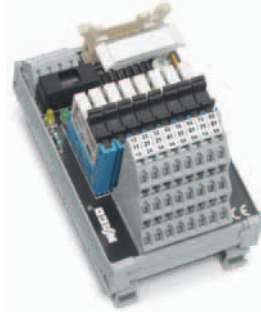
- GEFANUC 90-30 / ALSPA 80-35
 - SCHNEIDER M340
 - SCHNEIDER QUANTUM
 - SCHNEIDER TSX 37 (Micro)
 - SCHNEIDER TSX 57 (Premium)
 - ROCKWELL COMPACT LOGIX (1769)
 - ROCKWELL CONTROL LOGIX (1756)
- contact factory

WAGO Interface Modules			
	Type	Item No.	
DI/DO	T8ES	289-611	see page 374
		704-2003	see page 392
	T8S	704-5003	see page 393
		704-5013	see page 393
	T16ES	289-614	see page 374
		704-2004	see page 394
		704-2024	see page 394
		704-2044	see page 395
	T16S	704-2054	see page 395
		704-5004	see page 397
		704-5014	see page 397
		704-5024	see page 396
		704-5034	see page 397
		704-5044	see page 396
704-5054		see page 398	
AI/AO	A4ES	704-8012	see page 400
	A8ES	704-8013	see page 400

WAGO Interface Cables			
	Type	Item No.	
DI/DO	WAGO-753 T8ES	706-7753/300-XXX	see www.wago.com
	WAGO-753 T16ES	706-7753/301-XXX	see www.wago.com
	WAGO-750 HE T8E8S	706-7753/302-XXX	see page 402
	TSX T16ES	706-3057/300-XXX	see page 404
	S7-300 T16E	706-2300/101-XXX	see page 406
	S7-300 2 x T16E	706-2300/100-XXX	see page 406
	S7-300 T8S	706-2300/201-XXX	see page 407
	S7-300 2 x T16S	706-2300/200-XXX	see page 407
	S7-300 T16ES	706-2300/300-XXX	see page 408
	S7-300 2 x T16ES	706-2300/301-XXX	see page 408
AI/AO	S7-300 A8E	706-2300/400-XXX	see page 409
	S7-300 A8EI1	706-2300/404-XXX	see page 410
	S7-300 A8EI2	706-2300/406-XXX	see page 410
	S7-300 A4SI	706-2300/500-XXX	see page 411
	S7-300 A8SI	706-2300/502-XXX	see page 411

Cable Length Overview			
Item No.	-XXX	Length	Example
706-2300/201-XXX	-100	1 m	706-2300/201-100
	-200	2 m	706-2300/201-200
	-300	3 m	706-2300/201-300

	<p>Relay output module with miniature switching relay for 8 channels, 1 changeover contact each (1 u) with integrated status indication, 10-pole connector acc. to DIN 41651</p>	<p>Relay output module with miniature switching relay for 8 channels, 1 changeover contact each (1 u) with integrated status indication and manual operation, 10-pole connector acc. to DIN 41651</p>
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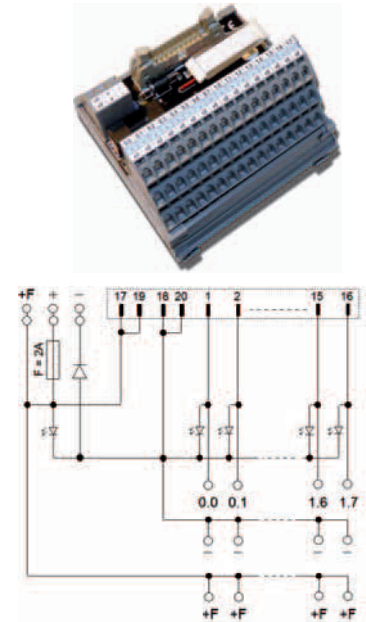
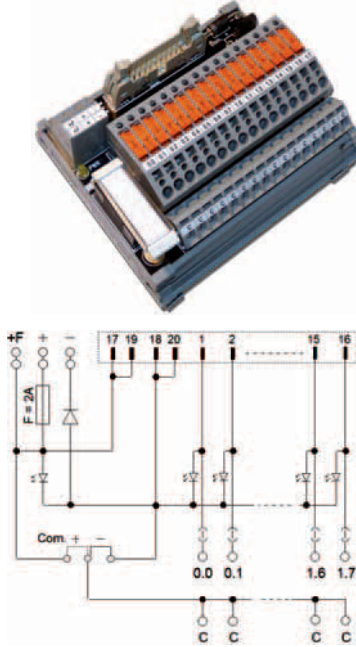


Description	Item No.	Pack. Unit
Switching relay module, for DIN 35 rail	704-5003	1

Technical Data

	Item No. 704-5003	Item No. 704-5013
Contact material	AgNi 90/10	AgNi 90/10
Contact type	1 changeover contact	1 changeover contact
Operating voltage	24 V DC (± 10 %)	24 V DC (± 10 %)
Max. switching voltage	250 V AC / 48 V DC	250 V AC / 48 V DC
Max. continuous current	5 A	5 A
Max. switching power (resistive)	1250VA / 50W	1250VA / 50W
Status indication	LED green : Channel LED yellow : Power supply	LED green : Channel LED yellow : Power supply
Mechanical life	10 x 10 ⁶ switching operations	10 x 10 ⁶ switching operations
Dielectric strength contact-coil (AC, 1 min)	4 kV	4 kV
Dielectric strength contact-contact	1 kV	1 kV
Fuse	Supply: 1 A Relay output: -	Supply: 1 A Relay output: -
Ambient operating temperature	-25 °C ... +40 °C	-25 °C ... +40 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions (mm) L x W x H	70 x 65 x 105	70 x 65 x 105
incl. mounting carrier and relay		
Wire connection	Height from upper-edge of DIN 35 rail Inpu: 10-pole connector acc. to DIN 41651 Output: CAGE CLAMP®	Height from upper-edge of DIN 35 rail Inpu: 10-pole connector acc. to DIN 41651 Output: CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Strip length	5 ... 6 mm / 0.22 in	5 ... 6 mm / 0.22 in
Accessories	Spare relay 857-152	Spare relay 857-152

	<p>Interface module for direct wiring (2 conductors) 16 channels with integrated status indication and disconnection, 20-pole connector acc. to DIN 41651</p>	<p>Interface module for direct wiring (3 conductors) 16 channels with integrated status indication, 20-pole connector acc. to DIN 41651</p>
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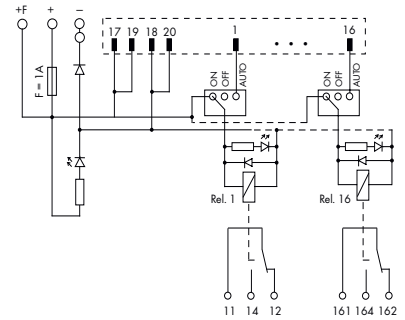
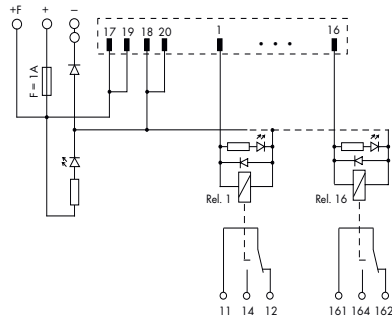
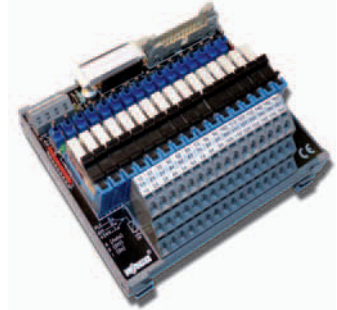
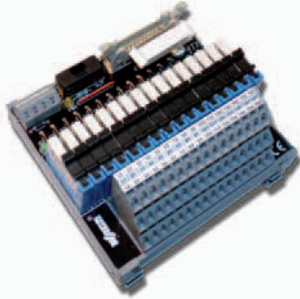


Description	Item No.	Pack. Unit
Interface module, for DIN 35 rail	704-2044	1

Technical Data		
Operating voltage	24 V DC (± 10 %)	24 V DC (± 10 %)
Max. continuous current	1 A per channel	1 A per channel
Max. total current	2 A	2 A
Fuse	2 A	2 A
Status indication	LED green : Channel; LED yellow : Power supply	LED green : Channel; LED yellow : Power supply
Power consumption LED	5 mA	5 mA
Nominal voltage to EN 60664-1	50 V / 0.8 kV / 2	50 V / 0.8 kV / 2
Ambient operating temperature	-20 °C ... +50 °C	-20 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions incl. mounting carrier (mm) W x H x L	99 x 85 x 50 Height from upper-edge of DIN 35 rail	85 x 85 x 63 Height from upper-edge of DIN 35 rail
Wire connection	Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®	Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Strip length	5 ... 6 mm / 0.22 in	5 ... 6 mm / 0.22 in

Relay output module with miniature switching relay for 16 channels, 1 changeover contact each (1 u) with integrated status indication, 20-pole connector acc. to DIN 41651

Relay output module with miniature switching relay for 16 channels, 1 changeover contact each (1 u) with integrated status indication and manual operation, 20-pole connector acc. to DIN 41651

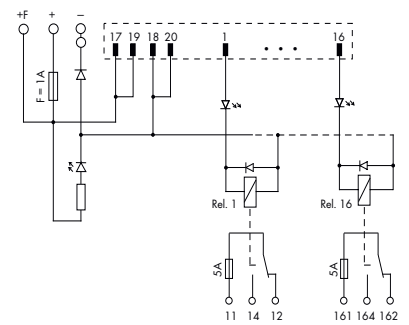
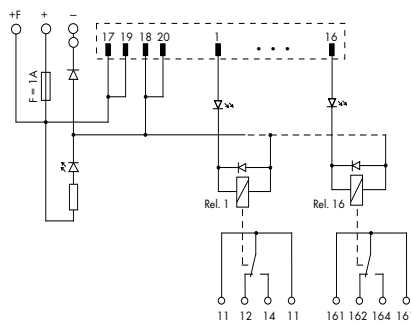
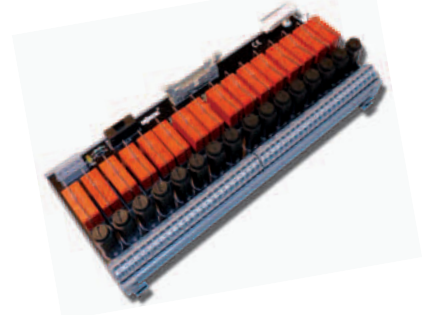
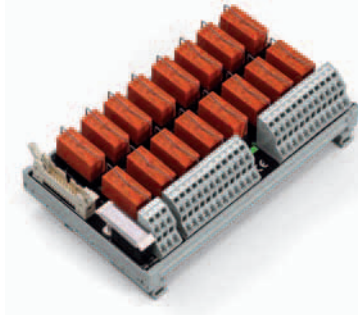


Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Switching relay module, for DIN 35 rail	704-5024	1	704-5044	1

Technical Data

Contact material	AgNi 90/10	AgNi 90/10
Contact type	1 changeover contact	1 changeover contact
Operating voltage	24 V DC (± 10 %)	24 V DC (± 10 %)
Max. switching voltage	250 V AC / 48 V DC	250 V AC / 48 V DC
Max. continuous current	5 A	5 A
Max. switching power (resistive)	1250VA / 50W	1250VA / 50W
Status indication	LED green : Channel LED yellow : Power supply	LED green : Channel LED yellow : Power supply
Mechanical life	10 x 10 ⁶ switching operations	10 x 10 ⁶ switching operations
Dielectric strength contact-coil (AC, 1 min)	4 kV	4 kV
Dielectric strength contact-contact	1 kV	1 kV
Fuse	Supply: 1 A Relay output: -	Supply: 1 A Relay output: -
Ambient operating temperature	-25 °C ... +40 °C	-25 °C ... +40 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions (mm) L x W x H incl. mounting carrier and relay	111 x 65 x 105	111 x 65 x 105
Wire connection	Height from upper-edge of DIN 35 rail Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®	Height from upper-edge of DIN 35 rail Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Strip length	5 ... 6 mm / 0.22 in	5 ... 6 mm / 0.22 in
Accessories	Spare relay 857-152	Spare relay 857-152

	<p>Relay output module with miniature switching relay for 16 channels, 1 changeover contact each (1 u) with integrated status indication, 20-pole connector acc. to DIN 41651</p>	<p>Relay output module with miniature switching relay for 16 channels, 1 changeover contact each (1 u) with integrated status indication and output fuse, 20-pole connector acc. to DIN 41651</p>
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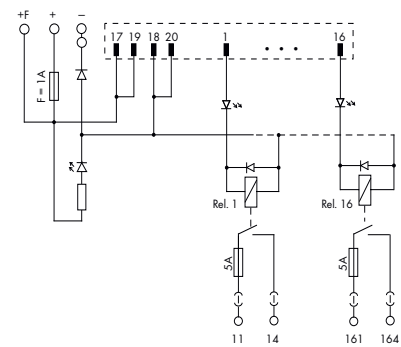
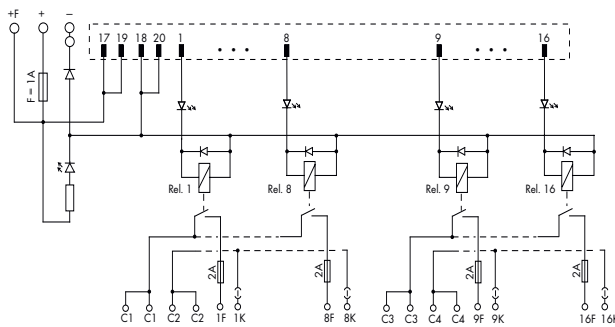
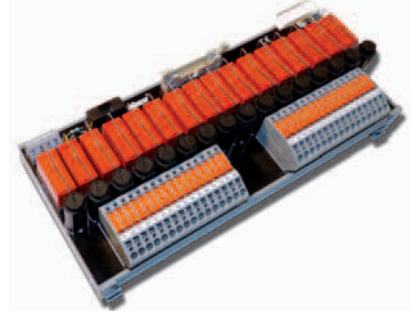
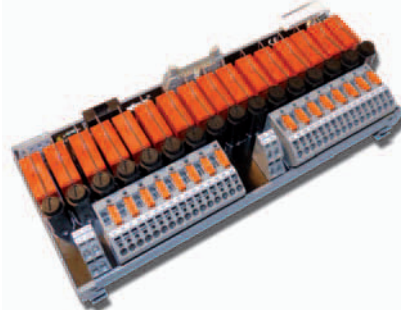
Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Switching relay module, for DIN 35 rail	704-5004	1	704-5034	1
Switching relay module without miniature switching relay, for DIN 35 rail	704-5014	1		

Technical Data

Technical Data	Item No. 704-5004	Item No. 704-5034
Contact material	AgNi 90/10	AgNi 90/10
Contact type	1 changeover contact	1 changeover contact
Operating voltage	24 V DC (± 10 %)	24 V DC (± 10 %)
Max. switching voltage	250 V AC / 48 V DC	250 V AC / 48 V DC
Max. continuous current	5 A	5 A
Inrush current	2s, 16A	2s, 16A
Max. switching power (resistive)	1250VA / 50W	1250VA / 50W
Status indication	LED green : Channel LED yellow : Power supply	LED green : Channel LED yellow : Power supply
Mechanical life	30 x 10 ⁶ switching operations	30 x 10 ⁶ switching operations
Dielectric strength contact-coil (AC, 1 min)	3 kV	4 kV
Dielectric strength contact-contact	1 kV	1 kV
Fuse	Supply: 1 A Relay output: -	Supply: 1 A Relay output: 5 A
Ambient operating temperature	-25 °C ... +50 °C	-25 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions (mm) L x W x H incl. mounting carrier and relay	180 x 50 x 105	247 x 55 x 105
Wire connection	Height from upper-edge of DIN 35 rail Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®	Height from upper-edge of DIN 35 rail Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Strip length	5 ... 6 mm / 0.22 in	5 ... 6 mm / 0.22 in
Accessories	Spare relay 788-154	Spare relay 788-154

Relay output module with miniature switching relay for 16 channels, 1 make contact each (1 a) with integrated status indication, disconnect terminal block and output fuse, 20-pole connector acc. to DIN 41651

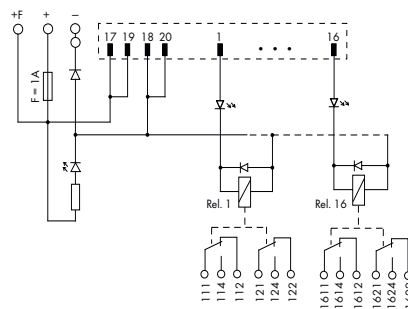
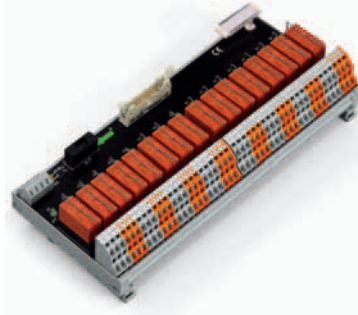
Relay output module with miniature switching relay for 16 channels, 1 make contact each (1 a) with integrated status indication, double disconnect terminal block and output fuse, 20-pole connector acc. to DIN 41651



Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Switching relay module, for DIN 35 rail	704-5054	1	704-5074	1

Technical Data				
Contact material	AgNi 90/10		AgNi 90/10	
Contact type	1 make contact		1 make contact	
Operating voltage	24 V DC (± 10 %)		24 V DC (± 10 %)	
Max. switching voltage	250 V AC / 48 V DC		250 V AC / 48 V DC	
Max. continuous current	2 A		5 A	
Max. switching power (resistive)	500VA / 50W		1250VA / 50W	
Status indication	LED green : Channel LED yellow : Power supply		LED green : Channel LED yellow : Power supply	
Mechanical life	30 x 10 ⁶ switching operations		30 x 10 ⁶ switching operations	
Dielectric strength contact-coil (AC, 1 min)	4 kV		4 kV	
Dielectric strength contact-contact	1 kV		1 kV	
Fuse	Supply: 1 A Relay output: 2 A		Supply: 1 A Relay output: 5 A	
Ambient operating temperature	-25 °C ... +50 °C		-25 °C ... +50 °C	
Storage temperature	-40 °C ... +70 °C		-40 °C ... +70 °C	
Dimensions (mm) L x W x H incl. mounting carrier and relay	240 x 55 x 105		240 x 55 x 105	
Wire connection	Height from upper-edge of DIN 35 rail Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®		Height from upper-edge of DIN 35 rail Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®	
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12		0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12	
Strip length	5 ... 6 mm / 0.22 in		5 ... 6 mm / 0.22 in	
Accessories	Spare relay 788-154		Spare relay 788-154	

	<p>Relay output module with miniature switching relay for 16 channels, 2 changeover contacts each (2 u) with integrated status indication, 20-pole connector acc. o DIN 41651</p>	
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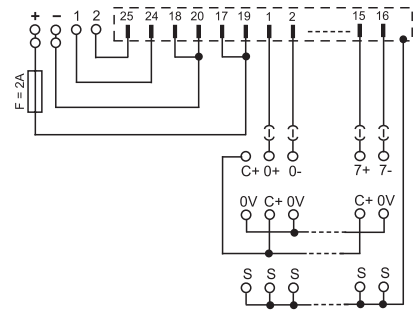
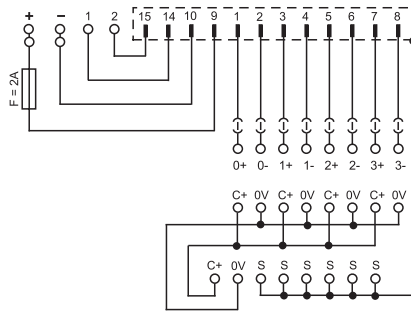
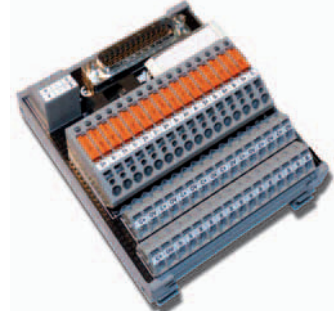
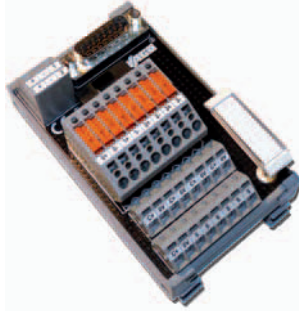


Description	Item No.	Pack. Unit
Switching relay module, for DIN 35 rail	704-5064	1

Technical Data

Contact material	AgNi 90/10
Contact type	2 changeover contact
Operating voltage	24 V DC (± 10 %)
Max. switching voltage	250 V AC / 48 V DC
Max. continuous current	5 A
Inrush current	2s, 8A
Max. switching power (resistive)	1000VA / 50W
Status indication	LED green : Channel LED yellow : Power supply
Mechanical life	30 x 10 ⁶ switching operations
Dielectric strength contact-coil (AC, 1 min)	4 kV
Dielectric strength contact-contact	1 kV
Fuse	Supply: 1 A Relay output: -
Ambient operating temperature	-25 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C
Dimensions (mm) L x W x H incl. mounting carrier and relay	247 x 50 x 105
Wire connection	Height from upper-edge of DIN 35 rail Inpu: 20-pole connector acc. to DIN 41651 Output: CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Strip length	5 ... 6 mm / 0.22 in
Accessories	Spare relay 788-156

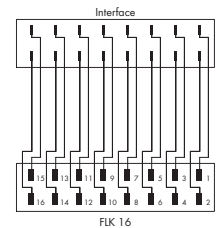
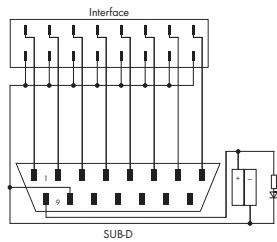
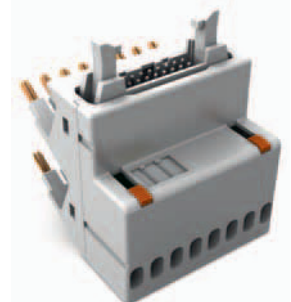
	<p>Interface module for analog sensors (2 and 4 conductors) 4 channels with integrated disconnection, 15-pole D-sub female connector acc. to DIN 41651</p>	<p>Interface module for analog sensors (2 and 4 conductors) 8 channels with integrated disconnection, 15-pole D-sub female connector acc. to DIN 41651</p>
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Description	Item No.	Pack. Unit
Interface module, for DIN 35 rail	704-8012	1

Technical Data		
Operating voltage	max. 48 V DC	max. 48 V DC
Output current (per channel)	max. 1 A	max. 1 A
Fuse	2 A (supply)	2 A (supply)
Nominal voltage to EN 60664-1	50 V / 0.8 kV / 2	50 V / 0.8 kV / 2
Ambient operating temperature	-20 °C ... +50 °C	-20 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions incl. mounting carrier (mm) W x H x L	66 x 105 x 50	92 x 105 x 50
Wire connection	Height from upper-edge of DIN 35 rail Inpu: 15-pin D-sub female connector Output: CAGE CLAMP®	Height from upper-edge of DIN 35 rail Inpu: 15-pin D-sub female connector Output: CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Strip length	5 ... 6 mm / 0.22 in	5 ... 6 mm / 0.22 in

	8-channel adapter with D-sub male connector, Input, positive switching	8-channel adapter with 16-pin ribbon cable connector Analog
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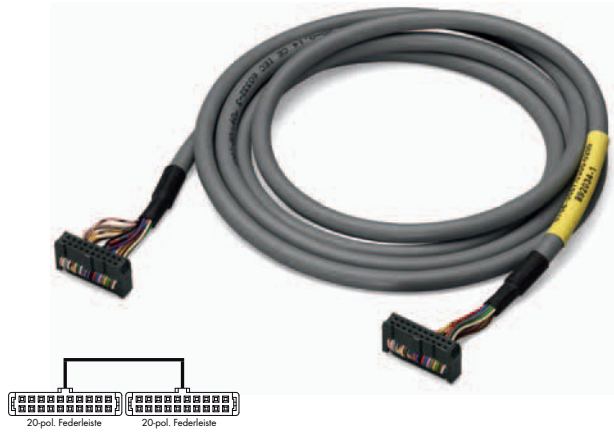
Description	Item No.	Pack. Unit	Item No.	Pack. Unit
8-channel adapter for system wiring	857-986	1	857-980	1

Technical Data

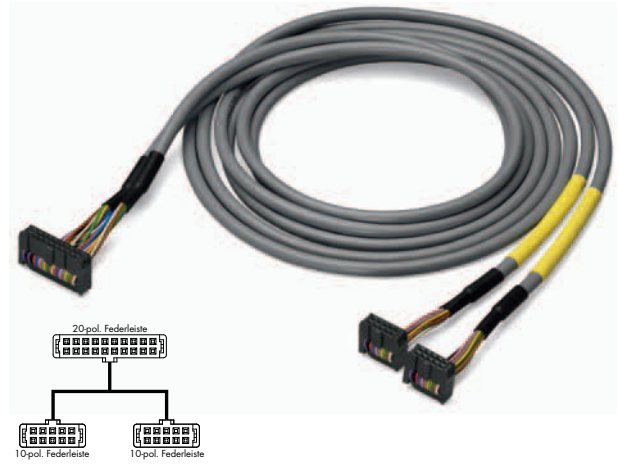
Connection type, signal level	15-pin D-sub male connector	16-pin ribbon cable connector acc. to DIN 41651
Performance level	2	3
Contact resistance	≤ 10mΩ	≤ 20mΩ
Current carrying capacity	1A	1A
Test voltage	500 V / 50 Hz / 1 min.	500 V / 50 Hz / 1 min.
Nominal supply voltage V_S	24 VDC	
Supply voltage range	16.8 V ... 31.2 V	
Max. total current	3 A	
Operational indication	LED, green	
Connection type, supply	231 Series with CAGE CLAMP®	
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14	
Strip length	5 ... 6 mm / 0.22 in	
Overvoltage category		III
Degree of pollution		2

WAGO Interface Cables

for 289, 704 Series, in connection with WAGO-I/O-SYSTEM 750



WAGO Interface Cables provide fast and easy connection of WAGO I/O modules equipped with a HE 10 connector (750-1400, -1402, -1500, -1501, 1502) to appropriate interface or relay modules (16-channel) featuring a 20-pole HE 10 connector. The cables are available in 1-, 2- and 3-meter lengths; each has one 20-pole connector at both ends.



WAGO Interface Cables provide fast and easy connection of WAGO I/O modules equipped with a HE 10 connector (750-1400, -1402, -1500, -1501, 1502) to appropriate interface or relay modules featuring a 10-pole HE 10 connector. For example, this cable connects 2 relay modules (8-channel) to a WAGO I/O module. The cables are available in 1- and 2-meter lengths; each has one 20-pole and two 10-pole connectors on the ends.

Description	Item No.	Pack. Unit
WAGO Interface Cable 20/20, length 1 m	706-3057/300-100	1
WAGO Interface Cable 20/20, length 2 m	706-3057/300-200	1
WAGO Interface Cable 20/20, length 3 m	706-3057/300-300	1

Technical Data	
Ports	2 x 20-pole connector acc. to DIN 41651
Wire cross-section	0.14 mm ² LiYY
Color coding	acc. to DIN VDE 47100
Current per channel	max. 1A
Operating temperature	-25 °C ... +70 °C
Degree of protection	IP20
Length	1 m (706-3057/300-100) 2 m (706-3057/300-200) 3 m (706-3057/300-300)

Description	Item No.	Pack. Unit
WAGO Interface Cable 20/2x10, length 1 m	706-7753/302-100	1
WAGO Interface Cable 20/2x10, length 2 m	706-7753/302-200	1

Technical Data	
Ports	1 x 20-pole / 2 x 10-pole connector acc. to DIN 41651
Wire cross-section	0.14 mm ² LiYY
Color coding	acc. to DIN VDE 47100
Current per channel	max. 1A
Operating temperature	-25 °C ... +70 °C
Degree of protection	IP20
Length	1 m (706-7753/302-100) 2 m (706-7753/302-200)



Color coding acc. to DIN VDE 47100		HE 10	14-pole
		contact number	
white			1
brown			2
green			3
yellow			4
grey			5
pink			6
blue			7
red			8
black			9
violet			10
grey/pink			11
red/blue			12
white/green			13
brown/green			14

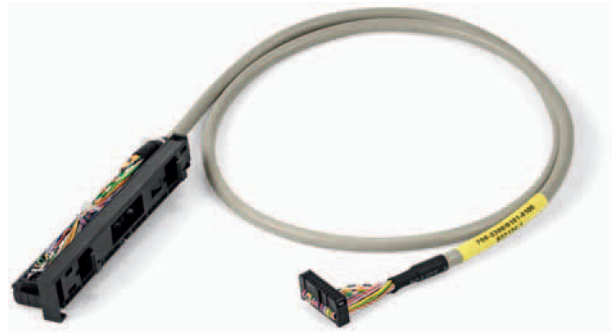
Color coding acc. to DIN VDE 47100		HE 10	20-pole
		contact number	
white			1
brown			2
green			3
yellow			4
grey			5
pink			6
blue			7
red			8
black			9
violet			10
grey/pink			11
red/blue			12
white/green			13
brown/green			14
white/yellow			15
yellow/brown			16
white/grey			17
grey/brown			18
white/pink			19
pink/brown			20

Description	Item No.	Pack. Unit
WAGO Interface Cable, 10-pole/ one free cable end, length 2 m	706-100/1301-200	1
Technical Data		
Ports	10-pole HE 10 connector/ one free cable end	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	2 m	

Description	Item No.	Pack. Unit
WAGO Interface Cable, 20-pole/ one free cable end, length 2 m	706-100/1300-200	1
Technical Data		
Ports	20-pole HE 10 connector/ one free cable end	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	2 m	

WAGO Interface Cables

for 289, 704 Series, in connection with Siemens S7-300



Description	Item No.	Pack. Unit
WAGO Interface Cable 2 x T16E, 1 m long	706-2300/100-100	1
WAGO Interface Cable 2 x T16E, 2 m long	706-2300/100-200	1
WAGO Interface Cable 2 x T16E, 3 m long	706-2300/100-300	1

Technical Data	
Ports	1 x Fujitsu FCN-367-J40 2 x 20-pole connector acc. to DIN 41651
Wire cross-section	0.14 mm ² LiYY
Color coding	acc. to DIN VDE 47100
Operating voltage	60 V
Current per channel	max. 1 A
Operating temperature	-20 °C ... +50 °C
Degree of protection	IP20
Length	1 m (706-2300/100-100) 2 m (706-2300/100-200) 3 m (706-2300/100-300)

Description	Item No.	Pack. Unit
WAGO Interface Cable T16E, 1 m long	706-2300/101-100	1
WAGO Interface Cable T16E, 2 m long	706-2300/101-200	1
WAGO Interface Cable T16E, 3 m long	706-2300/101-300	1

Technical Data	
Ports	1 x Siemens 6ES7-392-1BJ00-0AA0 1 x 20-pole connector acc. to DIN 41651
Wire cross-section	0.14 mm ² LiYY
Color coding	acc. to DIN VDE 47100
Operating voltage	60 V
Current per channel	max. 1 A
Operating temperature	-20 °C ... +50 °C
Degree of protection	IP20
Length	1 m (706-2300/101-100) 2 m (706-2300/101-200) 3 m (706-2300/101-300)



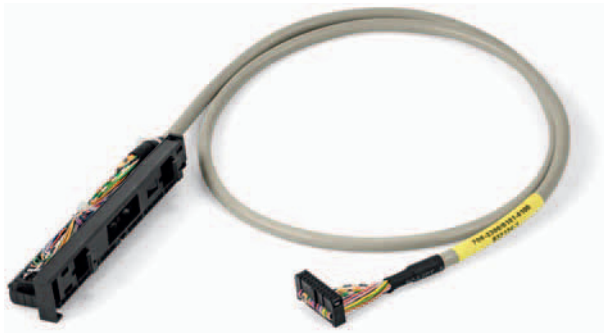
Similar to picture

Description	Item No.	Pack. Unit
WAGO Interface Cable 2 x T16S, 1 m long	706-2300/200-100	1
WAGO Interface Cable 2 x T16S, 2 m long	706-2300/200-200	1
WAGO Interface Cable 2 x T16S, 3 m long	706-2300/200-300	1
Technical Data		
Ports	1 x Fujitsu FCN-367-J40 2 x 20-pole connector acc. to DIN 41651	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Operating voltage	60 V	
Current per channel	max. 1 A	
Operating temperature	-20 °C ... +50 °C	
Degree of protection	IP20	
Length	1 m (706-2300/200-100) 2 m (706-2300/200-200) 3 m (706-2300/200-300)	

Description	Item No.	Pack. Unit
WAGO Interface Cable T8S, 1 m long	706-2300/201-100	1
WAGO Interface Cable T8S, 2 m long	706-2300/201-200	1
WAGO Interface Cable T8S, 3 m long	706-2300/201-300	1
Technical Data		
Ports	1 x Siemens 6ES7-392-1BJ00-0AA0 1 x 10-pole connector acc. to DIN 41651	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Operating voltage	60 V	
Current per channel	max. 1 A	
Operating temperature	-20 °C ... +50 °C	
Degree of protection	IP20	
Length	1 m (706-2300/201-100) 2 m (706-2300/201-200) 3 m (706-2300/201-300)	

WAGO Interface Cables

for 289, 704 Series, in connection with Siemens S7-300



Description	Item No.	Pack. Unit
WAGO Interface Cable T16ES, 1 m long	706-2300/300-100	1
WAGO Interface Cable T16ES, 2 m long	706-2300/300-200	1
WAGO Interface Cable T16ES, 3 m long	706-2300/300-300	1

Technical Data	
Ports	1 x Siemens 6ES7-392-1BJ00-0AA0 1 x 20-pole connector acc. to DIN 41651
Wire cross-section	0.14 mm ² LiYY
Color coding	acc. to DIN VDE 47100
Operating voltage	60 V
Current per channel	max. 1 A
Operating temperature	-20 °C ... +50 °C
Degree of protection	IP20
Length	1 m (706-2300/300-100) 2 m (706-2300/300-200) 3 m (706-2300/300-300)

Description	Item No.	Pack. Unit
WAGO Interface Cable 2 x T16ES, 1 m long	706-2300/301-100	1
WAGO Interface Cable 2 x T16ES, 2 m long	706-2300/301-200	1
WAGO Interface Cable 2 x T16ES, 3 m long	706-2300/301-300	1

Technical Data	
Ports	1 x Siemens 6ES7-392-1BM00-0AA0 2 x 20-pole connector acc. to DIN 41651
Wire cross-section	0.14 mm ² LiYY
Color coding	acc. to DIN VDE 47100
Operating voltage	60 V
Current per channel	max. 1 A
Operating temperature	-20 °C ... +50 °C
Degree of protection	IP20
Length	1 m (706-2300/301-100) 2 m (706-2300/301-200) 3 m (706-2300/301-300)



Description	Item No.	Pack. Unit
WAGO Interface Cable A8E, 1 m long	706-2300/400-100	1
WAGO Interface Cable A8E, 2 m long	706-2300/400-200	1
WAGO Interface Cable A8E, 3 m long	706-2300/400-300	1

Technical Data	
Ports	1 x Siemens 6ES7-392-1BJ00-0AA0 1 x 25-pole D-sub female connector
Wire cross-section	0.25 mm ² Li YCY
Color coding	acc. to DIN VDE 47100
Operating voltage	125 V
Current per channel	max. 2 A
Operating temperature	-20 °C ... +50 °C
Degree of protection	IP20
Length	1 m (706-2300/400-100) 2 m (706-2300/400-200) 3 m (706-2300/400-300)

WAGO Interface Cables

for 289, 704 Series, in connection with Siemens S7-300



Description	Item No.	Pack. Unit
WAGO Interface Cable A8EI1, 1 m long	706-2300/404-100	1
WAGO Interface Cable A8EI1, 2 m long	706-2300/404-200	1
WAGO Interface Cable A8EI1, 3 m long	706-2300/404-300	1

Technical Data	
Ports	1 x Siemens 6ES7-392-1BM00-0AA0 1 x 25-pole D-sub female connector acc. to
Wire cross-section	0.25 mm ² Li YCY
Color coding	acc. to DIN VDE 47100
Operating voltage	125 V
Current per channel	max. 2 A
Operating temperature	-20 °C ... +50 °C
Degree of protection	IP20
Length	1 m (706-2300/404-100) 2 m (706-2300/404-200) 3 m (706-2300/404-300)

Description	Item No.	Pack. Unit
WAGO Interface Cable A8EI2, 1 m long	706-2300/406-100	1
WAGO Interface Cable A8EI2, 2 m long	706-2300/406-200	1
WAGO Interface Cable A8EI2, 3 m long	706-2300/406-300	1

Technical Data	
Ports	1 x Siemens 6ES7-392-1BM00-0AA0 1 x 25-pole D-sub female connector
Wire cross-section	0.25 mm ² Li YCY
Color coding	acc. to DIN VDE 47100
Operating voltage	125 V
Current per channel	max. 2 A
Operating temperature	-20 °C ... +50 °C
Degree of protection	IP20
Length	1 m (706-2300/406-100) 2 m (706-2300/406-200) 3 m (706-2300/406-300)

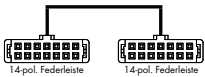


Description	Item No.	Pack. Unit
WAGO Interface Cable A4SI, 1 m long	706-2300/500-100	1
WAGO Interface Cable A4SI, 2 m long	706-2300/500-200	1
WAGO Interface Cable A4SI, 3 m long	706-2300/500-300	1
Technical Data		
Ports	1 x Siemens 6ES7-392-1BJ00-0AA0 1 x 15-pole D-sub female connector	
Wire cross-section	0.25 mm ² Li YCY	
Color coding	acc. to DIN VDE 47100	
Operating voltage	125 V	
Current per channel	max. 2 A	
Operating temperature	-20 °C ... +50 °C	
Degree of protection	IP20	
Length	1 m (706-2300/500-100) 2 m (706-2300/500-200) 3 m (706-2300/500-300)	

Description	Item No.	Pack. Unit
WAGO Interface Cable A8SI, 1 m long	706-2300/502-100	1
WAGO Interface Cable A8SI, 2 m long	706-2300/502-200	1
WAGO Interface Cable A8SI, 3 m long	706-2300/502-300	1
Technical Data		
Ports	1 x Siemens 6ES7-392-1BM00-0AA0 1 x 15-pole D-sub female connector	
Wire cross-section	0.25 mm ² Li YCY	
Color coding	acc. to DIN VDE 47100	
Operating voltage	125 V	
Current per channel	max. 2 A	
Operating temperature	-20 °C ... +50 °C	
Degree of protection	IP20	
Length	1 m (706-2300/502-100) 2 m (706-2300/502-200) 3 m (706-2300/502-300)	

7 WAGO Interface Cables

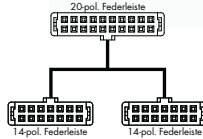
for Interface Adapter, 857 Series



The 14-pin WAGO Interface Cables transmit signals one-to-one from the 14-pole connector and are available in 1-, 2- and 3-meter lengths.

Suitable for system wiring when combined with the Interface Adapters (Item No. 857-981 and 857-982)

Description	Item No.	Pack. Unit
WAGO Interface Cable 14/14, 1m long	706-753/300-100	1
WAGO Interface Cable 14/14, 2m long	706-753/300-200	1
WAGO Interface Cable 14/14, 3m long	706-753/300-300	1
Technical Data		
Ports	2 x 14-pole connector acc. to DIN 41651	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	1 m (706-753/300-100) 2 m (706-753/300-200) 3 m (706-753/300-300)	



WAGO Interface Cables provide fast and easy connection of WAGO I/O modules featuring ribbon cable connectors. The following WAGO I/O modules and adapters are compatible:

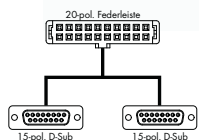
750-1500 (16 DO) -> 857-981 (DO)

750-1502 (8 DO / 8 DI) -> 857-981 (DO) and 857-982 (DI)

The cables are available in 1-, 2- and 3-meter lengths – each has one 20-pole or two 14-pole connectors on the ends.

Suitable for system wiring when combined with Interface Adapters (Item No. 857-981 and 857-982)

Description	Item No.	Pack. Unit
WAGO Interface Cable 20/2x14, 1m long	706-7753/304-100	1
WAGO Interface Cable 20/2x14, 2m long	706-7753/304-200	1
WAGO Interface Cable 20/2x14, 3m long	706-7753/304-300	1
Technical Data		
Ports	1 x 20-pole connector / 2 x 14-pole connector acc. to DIN 41651	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	1 m (706-7753/304-100) 2 m (706-7753/304-200) 3 m (706-7753/304-300)	



WAGO Interface Cables provide fast and easy connection of WAGO I/O modules featuring ribbon cable connectors. The following WAGO I/O modules and D-sub adapters are compatible:

750-1500 (16 DO) → 857-986 (DO)

The cables are available in 1-, 2- and 3-meter lengths - each has one 20-pole or two 15-pole connectors on the ends.

Suitable for system wiring when combined with Interface Adapter (Item No. 857-986)

Description	Item No.	Pack. Unit
WAGO Interface Cable 20/2x15, 1m long	706-7753/306-100	1
WAGO Interface Cable 20/2x15, 2m long	706-7753/306-200	1
WAGO Interface Cable 20/2x15, 3m long	706-7753/306-300	1
Technical Data		
Ports	1 x 20-pole connector to DIN 41651 / 2 x 15-pole D-sub female connector acc. to DIN 41652	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	1 m (706-7753/306-100) 2 m (706-7753/306-200) 3 m (706-7753/306-300)	



The 16-pin WAGO Interface Cables transmit signals one-to-one from the 16-pole connector and are available in 1-, 2- and 3-meter lengths. Signal transmission from the 857-980 Interface Adapter is also possible.

Suitable for system wiring when combined with the Interface Adapter (Item No. 857-980)

Description	Item No.	Pack. Unit
WAGO Interface Cable 16/16, 1m long	706-753/301-100	1
WAGO Interface Cable 16/16, 2m long	706-753/301-200	1
WAGO Interface Cable 16/16, 3m long	706-753/301-300	1
Technical Data		
Ports	2 x 16-pole connector acc. to DIN 41651	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	1 m (706-753/301-100) 2 m (706-753/301-200) 3 m (706-753/301-300)	

WAGO Interface Cables

for Interface Adapters, 857 Series



Color coding acc. to DIN VDE 47100		HE 10	10-pole contact number
white			1
brown			2
green			3
yellow			4
grey			5
pink			6
blue			7
red			8
black			9
violet			10

Color coding acc. to DIN VDE 47100		HE 10	16-pole contact number
white			1
brown			2
green			3
yellow			4
grey			5
pink			6
blue			7
red			8
black			9
violet			10
grey/pink			11
red/blue			12
white/green			13
brown/green			14
white/yellow			15
yellow/brown			16

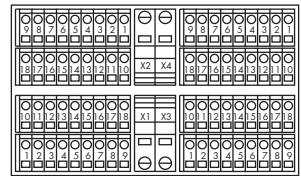
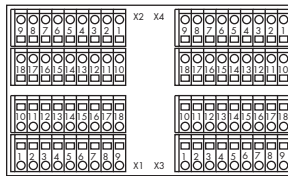
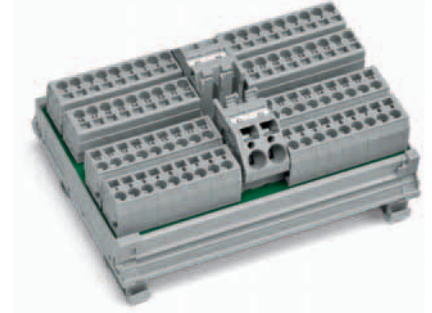
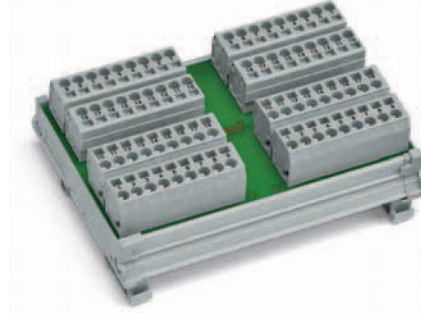
Description	Item No.	Pack. Unit
WAGO Interface Cable, 14-pole/ one free cable end, length 2 m	706-100/1303-200	1
Technical Data		
Ports	14-pole HE 10 connector/ one free cable end	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	2 m	

Description	Item No.	Pack. Unit
WAGO Interface Cable, 16-pole/ one free cable end, length 2 m	706-100/1602-200	1
Technical Data		
Ports	16-pole HE 10 connector/ one free cable end	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	2 m	

8 DIN-Rail Mount Potential Multiplication Modules

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	DIN-rail mount potential multiplication module 4 potentials with each 18 connection points	DIN-rail mount potential multiplication module 4 potentials with each one power supply and 18 connection points, jumpable
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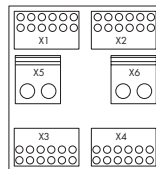
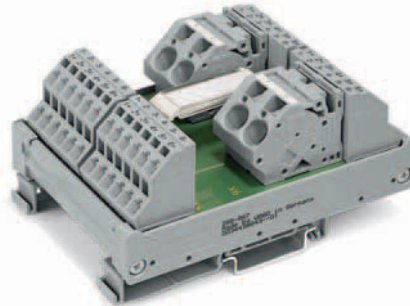


Description	Item No.	Pack. Unit	Item No.	Pack. Unit
Potential multiplication module	288-825	1	288-837	1

Technical Data				
Max. operating voltage per potential	250 V AC/DC		250 V AC/DC	
Max. total current per potential	12 A		32 A	
Max. current per connection	12 A		12 A	
Nominal voltage to EN 60664-1	250 V / 4 kV / 2		250 V / 4 kV / 2	
Ambient operating temperature	-20 °C ... +50 °C		-20 °C ... +50 °C	
Storage temperature	-40 °C ... +80 °C		-40 °C ... +80 °C	
Dimensions (mm) W x H x L incl. mounting feet or mounting carrier	85 x 45 x 115		85 x 45 x 115	
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP® (WAGO 739 Series)		Height from upper-edge of DIN 35 rail Power supply: CAGE CLAMP® (WAGO 745 Series) Connection points: CAGE CLAMP® (WAGO 739 Series)	
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)		Power supply: 0.2 mm² ... 6 mm² / AWG 24 ... 10 Connection points: 0.08 mm² ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)	
Strip lengths	8 ... 9 mm / 0.33 in		Power supply: 11 ... 12 mm / 0.45 in Connection points: 8 ... 9 mm / 0.33 in	
Accessories:				
Comb-style jumper bar, 2-pole			745-382	

DIN-rail mount potential multiplication module
4 potential groups with 6 connection points
each for plus and minus,
jumper for common minus potential

- May be used with electronic circuit breakers for 24 and 0 VDC power distribution, as a substitute for DIN-rail-mount terminal blocks
- 4 potential groups for 4 output circuits
- 6 connection points per potential group for plus and minus
- Features on-unit commoned minus potential with commoning option to adjacent modules via 745-682 comb-style jumper bar
- On-unit marker carrier



Description	Item No.	Pack. Unit
Potential Multiplication Module	288-867	1
Technical Data		
Operating voltage	24 VDC	
Number of potentials	4	
Max. total current per potential	10 A	
Max. current per connection	10 A	
Max. total current 0 V	40 A	
Nominal voltage to EN 60664-1	50 V / 0.8 kV / 2	
Ambient operating temperature	-20 °C ... +50 °C	
Storage temperature	-40 °C ... +70 °C	
Dimensions (mm) L x W x H incl. mounting carrier and universal mounting feet	70x50x105	
Type of mounting	Height from upper-edge of DIN 35 rail DIN-rail mount (EN 60715)	
Wire connection	Connection points: CAGE CLAMP® (WAGO 736 Series) Minus potential: CAGE CLAMP® (WAGO 745 Series)	
Cross sections	Connection points: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 Minus potential: 0.2 mm ² ... 16 mm ² / AWG 24 ... 6 (AWG 12 THHN, THWN)	
Strip length	Connection points: 5 ... 6 mm / 0.2 ... 0.24 in Minus potential: 12 ... 13 mm / 0.47 ... 0.51 in	
Accessories		
Comb-style jumper bar, 2-pole	745-682	