














1 Modular I/O System Overview



Industrial Compact PC / PLC / Fieldbus Coupler



Fieldbus System	PLC - Industrial Compact PC	Page	PLC - Programmable Fieldbus Controller	Page
	758-870/000-111 PLC - I/O-IPC-G2 Linux 2.6 CoDeSys Visu PDP-M	42	750-833 PLC - Programmable Fieldbus Controller DP/V1	50
	758-874/000-111 PLC - I/O-IPC-C6 Linux 2.6 CoDeSys Visu PDP-M	44		
	758-874/000-131 PLC - I/O-IPC-C6 Linux 2.6 CoDeSys Visu Telecontrol PDP-M	44		
	758-875/000-111 PLC - I/O-IPC-C10 E Linux 2.6 CoDeSys Visu PDP-M	46		
	758-875/000-131 PLC - I/O-IPC-C10 E Linux 2.6 CoDeSys Visu Telecontrol PDP-M	46		
	758-876/000-111 PLC - I/O-IPC-P14 Linux 2.6 CoDeSys Visu PDP-M	48		
 MODBUS/TCP			750-880 PLC - Prog. Fieldbus Controller, 2-port, 10/100 Mbit/s	52
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			750-841 PLC - Programmable Fieldbus Controller, 100 Mbit	58
			750-871 PLC - Programmable Fieldbus Controller, 2-port	60
			750-873 PLC - Programmable Fieldbus Controller, RS-232	62
MODBUS/TCP	758-870/000-110 PLC - I/O-IPC-G2 Linux 2.6 CoDeSys Visu	42	750-882 PLC - Media Redundancy Prog. Fieldbus Controller	56
	758-874/000-110 PLC - I/O-IPC-C6 Linux 2.6 CoDeSys Visu	44	750-842 PLC - Programmable Fieldbus Controller, 10 Mbit	64
	758-874/000-130 PLC - I/O-IPC-C6 Linux 2.6 CoDeSys Visu Telecontrol	44	750-843 PLC - Programmable Fieldbus Controller, 10 Mbit	66
	758-875/000-110 PLC - I/O-IPC-C10 E Linux 2.6 CoDeSys Visu	46	750-863 PLC - Programmable Fieldbus Controller, RS-232	76
	758-875/000-130 PLC - I/O-IPC-C10 E Linux 2.6 CoDeSys Visu Telecontrol	46		
	758-876/000-110 PLC - I/O-IPC-P14 Linux 2.6 CoDeSys Visu	48		
			750-806 PLC - Programmable Fieldbus Controller	68
	758-870/000-112 PLC - I/O-IPC-G2 Linux 2.6 CoDeSys Visu CO-M	42	750-837 PLC - Programmable Fieldbus Controller, MCS	70
	758-874/000-112 PLC - I/O-IPC-C6 Linux 2.6 CoDeSys Visu CO-M	44	750-838 PLC - Programmable Fieldbus Controller, D-Sub	72
	758-875/000-112 PLC - I/O-IPC-C10 E Linux 2.6 CoDeSys Visu CO-M	46		
	758-876/000-112 PLC - I/O-IPC-P14 Linux 2.6 CoDeSys Visu CO-M	48		
LINUX®	758-870 PLC - I/O-IPC-G2 Linux 2.6	42	750-860 PLC - Programmable Fieldbus Controller, MCS	74
	758-874 PLC - I/O-IPC-C6 Linux 2.6	44	750-863 PLC - Programmable Fieldbus Controller, RS-232	76
	758-875 PLC - I/O-IPC-C10 E Linux 2.6	46		
	758-876 PLC - I/O-IPC-P14 Linux 2.6	48		
MODBUS			750-812, PLC - Prog. Fieldbus Controller, RS-485 (150 ... 19200 Bd)	78
			750-814, PLC - Prog. Fieldbus Controller, RS-232 (150 ... 19200 Bd)	78
			750-815, PLC - Prog. Fieldbus Controller, RS-485 (1,2 ... 115,2 kbd)	78
			750-816, PLC - Prog. Fieldbus Controller, RS-232 (1,2 ... 115,2 kbd)	78
			750-804 PLC - Programmable Fieldbus Controller	80
IEC 60870-5 -101/-104 IEC 61850 IEC 61400-25	758-874/000-130 PLC - I/O-IPC-C6 Linux 2.6 CoDeSys Visu Telecontrol	42	750-872 PLC - Programmable Fieldbus Telecontroller	82
	758-874/000-131 PLC - I/O-IPC-C6 Linux 2.6 CoDeSys Visu Telecontrol PDP-M	44		
	758-875/000-130 PLC - I/O-IPC-C10 E Linux 2.6 CoDeSys Visu Telecontrol	46		
	758-875/000-131 PLC - I/O-IPC-C10 E Linux 2.6 CoDeSys Visu Telecontrol PDP-M	48		
			750-849 PLC - Programmable Fieldbus Controller	84
			750-830 PLC - Programmable Fieldbus Controller	86
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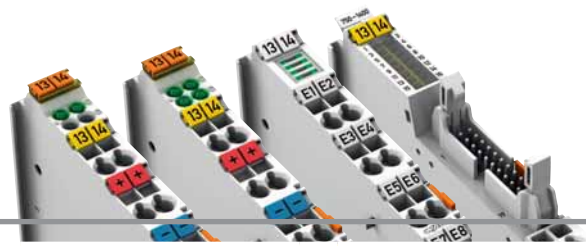


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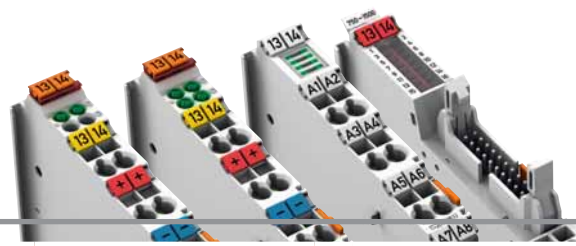
Digital Inputs



Function	2-Channel Digital Input	Page	4-Channel Digital Input	Page	8-Channel Digital Input	Page	16-Channel Digital Input	Page
5 VDC			750-414 0.2 ms, high-side switch.	160				
5/12 VDC					753-434 (5 ... 14 V DC) 0.2 ms, high-side switch.	161		
24 VDC	750-400 / 753-400 3.0 ms, high-side switch.	162	750-402 / 753-402 3.0 ms, high-side switch.	165	750-430 / 753-430 3.0 ms, high-side switch.	171	750-1400 3.0 ms, high-side switch., ribbon cable	177
	750-401 / 753-401 0.2 ms, high-side switch.	162	750-403 / 753-403 0.2 ms, high-side switch.	165	750-431 / 753-431 0.2 ms, high-side switch.	171	750-1405 3.0 ms, high-side switch.	178
	750-410 / 753-410 3.0 ms, high-side switch., proximity switch	163	750-432 / 753-432 3.0 ms, high-side switch.	166	750-436 / 753-436 3.0 ms, low-side switch.	172	750-1406 0.2 ms, high-side switch.	178
	750-411 / 753-411 0.2 ms, high-side switch., proximity switch	163	750-433 / 753-433 0.2 ms, high-side switch.	166	750-437 / 753-437 0.2 ms, low-side switch.	172	750-1402 3.0 ms, low-side switch., ribbon cable	179
	750-418 / 753-418 3.0 ms, high-side switch., diagnostics, acknowl.	164	750-422 / 753-422 Pulse extension, 10 ms	167	750-1415 3.0 ms, high-side switch.	175	750-1407 3.0 ms, low-side switch.	180
	750-421 / 753-421 3.0 ms, high-side switch., diagnostics	164	750-408 / 753-408 3.0 ms, low-side switch.	168	750-1416 0.2 ms, high-side switch.	175		
			750-409 / 753-409 0.2 ms, low-side switch.	168	750-1417 3.0 ms, low-side switch.	176		
	750-425 / 753-425, NAMUR Proximity switch acc. to DIN EN 50227	191	750-1420 3.0 ms, high-side switch.	169	750-1418 0.2 ms, low-side switch.	176		
	750-424 / 753-424 Intruder detection	192	750-1421 0.2 ms, high-side switch.	169				
			750-1422 3.0 ms, low-side switch.	170	8-Channel Digital Input/Output			
			750-1423 0.2 ms, low-side switch.	170	750-1502 0.5 A, high-side switch., ribbon cable	173		
					750-1506 0.5 A, high-side switch.	174		
	24 V AC/DC			750-415 / 753-415 20 ms	181			
			750-423 / 753-423 50 ms, power jumper contacts	182				
42 V AC/DC		750-428 / 753-428 20 ms	183					
48 VDC	750-412 / 753-412 3.0 ms, high-side switch.	184						
60 VDC	753-429 3.0 ms, high-side switch.	185						
110 VDC	750-427 / 753-427 3.0 ms, high-side switch. or low-side switch	186						
220 VDC	750-407 3.0 ms, high-side switch	187						
120 VAC	750-406 / 753-406 10 ms, high-side switch	188						
120/230 VAC			753-440 (120 ... 230 VAC) 10 ms, high-side switch	189				
230 VAC	750-405 / 753-405 10 ms, high-side switch	190			8-Channel Digital Input			
PROFIsafe Modules			750-661/000-003; 753-661/000-003 PROFIsafe V2 iPar, 4 FDI 24 V	298	750-662/000-003; 753-662/000-003 PROFIsafe V2 iPar, 8 FDI 24 V	299		
			750-667/000-003; 753-667/000-003 PROFIsafe V2 iPar, 4 FDI/4 FDO 24 V/2 A	300	750-660/000-001 , PROFIsafe, 8 FDI 24 V	302		
			750-666/000-003; 753-666/000-003 PROFIsafe V2 iPar, 4 FDI/2 FDO 24 V/2 A	301				
			750-665/000-001 , PROFIsafe, 4 FDO 0.5 A, 4 FDI 24 V	303				
Ex i Modules	750-438, NAMUR, Ex i Proximity switch acc. to DIN EN 50227	310						
	1-Channel Digital Input							
	750-435, NAMUR, Ex i Proximity switch acc. to DIN EN 50227	308						

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Digital Outputs



Function	2-Channel Digital Output	Page	4-Channel Digital Output	Page	8-Channel Digital Output	Page	16-Channel Digital Output	Page
5 VDC			750-519 Highside switch.	196				
5/12 VDC					753-534 (5 ... 14 VDC) 1 A, short-circuit protec., high-side switch.	197		
24 VDC	750-501 / 753-501 0.5 A, short-circuit protec., high-side switch.	198	750-504 / 753-504 0.5 A, short-circuit protec., high-side switch.	202	750-530 / 753-530 0.5 A, short-circuit protec., high-side switch.	206	750-1500 0.5 A, high-side switch., ribbon cable	213
	750-502 / 753-502 2.0 A, short-circuit protec., high-side switch.	199	750-531 / 753-531 (2-conductor) 0.5 A, short-circuit protec., high-side switch.	203	750-536 / 753-536 0.5 A, short-circuit protec., low-side switch.	207	750-1504 0.5 A, high-side switch.	214
	750-506 / 753-506 0.5 A with diagnostics, short-circuit protec., high-side switch.	200	750-516 / 753-516 Short-circuit protec., low-side switch.	204	750-537 0.5 A with diagnostics short-circuit protec., high-side switch.	208	750-1501 0.5 A, low-side switch., ribbon cable	215
	750-508 / 753-508 2.0 A with diagnostics, short-circuit protec., high-side switch.	201	750-532 / 753-532 (2-conductor) 0.5 A with diagnostics, short-circuit protec., high-side switch.	205	750-1515 0.5 A, high-side switch.	211	750-1505 0.5 A, low-side switch.	216
					750-1516 0.5 A, low-side switch.	212		
					8-Channel Digital Input/Output			
						750-1502 0.5 A, high-side switch., ribbon cable	209	
					750-1506 0.5 A, high-side switch.	210		
120/230 VAC			753-540 (120 ... 230 VAC) 0.25 A, high-side switch.	217				
230 V AC/DC	750-509 / 753-509 0.3 A, solid state relay	218						
230 VAC	750-522 0.5 A, solid state relay (3 A < 30 ms)	219						
Relay Modules	750-514 / 753-514 (2 changeover contacts) potential free, 125 VAC, 0.5 A	220						
	750-517 / 753-517 (2 changeover contacts) potential free, 230 VAC, 1 A	221						
	750-512 / 753-512 (2 make contacts) non-floating, 230 VAC, 2 A	222						
	750-513 / 753-513 (2 make contacts) potential free, 230 VAC, 2 A	223						
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	750-523 (Relay with manual operation) potential free, 1 make contact, 230 VAC, 16 A	224						
PROFIsafe Modules			750-667/000-003; 753-667/000-003 PROFIsafe V2 iPar, 4 FDI/4 FDO 24 V/2 A	300				
			750-666/000-003; 753-666/000-003 PROFIsafe V2 iPar, 4 FDI/2 FDO 24 V/2 A	301				
			750-665/000-001 , PROFIsafe, 4 FDO 0.5 A, 4 FDI 24 V	303				
Ex i Modules	750-535, Ex i Short-circuit protec., high-side switch.	312						

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Analog Inputs



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0 – 20 mA	750-452 / 753-452 Differential inputs	228	750-453 / 753-453 Single-ended (S.E.)	232			
	750-465 / 753-465 Single-ended (S.E.)	229					
	750-470 Single-ended (S.E.), short-circuit protec.	230					
	750-472 / 753-472 Single-ended (S.E.), 16 bits	231					
	750-480 / 753-480 Differential measurement inputs	233					
4 – 20 mA	750-454 / 753-454 Differential inputs	228	750-455 / 753-455 Single-ended (S.E.)	232			
	750-466 / 753-466 Single-ended (S.E.)	229					
	750-473 Single-ended (S.E.), short-circuit protec.	230					
	750-474 / 753-474 Single-ended (S.E.), 16 bits	231					
	750-492 / 753-492 Differential measurement inputs	234					
	750-482 / 753-482 Single-ended (S.E.), 16 bits, HART	235					
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	750-479 / 753-479 Differential measurement inputs	243					
	750-476 / 753-476 Single-ended (S.E.), 16 bits	240					
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				750-463 4AI RTD (Building Automation)	247		
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Analog Special Functions	750-493 3-Phase Power Measurement Module	251					
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	750-484, Ex i 4–20 mA, single-ended (S.E.), HART	316					
	750-481/003-000, Ex i PT100 / RTD	318					
	750-487/003-000, Ex i TC	320					

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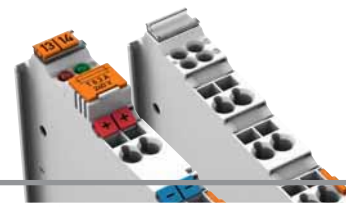
Specialty Modules



Function	Specialty Module	Page	Specialty Module	Page
Counter Modules	750-404 / 753-404 Up/Down Counter, 24 VDC, 100 kHz	264	750-638 / 753-638 , 2-Channel- Up/Down Counter, 24 VDC/16 bits /500 Hz	265
	Pulse Width Module	750-511 , 2-Channel Pulse Width Module, 24 VDC, short-circuit protec., pos. switch.	266	
Distance and Angle Measurement Modules	750-630 SSI Transmitter Interface	267	750-631/000-004 Incremental Encoder Interface	268
	750-637 , Incremental Encoder Interface	269	750-635 / 753-635 Digital Impulse Interface	270
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	750-651 TTY Interface 20 mA Current Loop	273	750-654 Data Exchange Module	274
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Stepper Modules	750-670 Stepper Controller RS-422, 24 V, 20 mA	288	750-671 Stepper Controller 24 V, 1.5 A	289
	750-672 Stepper Controller 70 V, 7.5 A, 6 IN, 2 OUT	290	750-673 Servo Stepper Controller 70 V, 7.5 A, 6 IN, 2 OUT	292
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PROFIsafe Modules	750-661/000-003 ; 753-661/000-003 PROFIsafe V2 iPar, 4 FDI 24 V	298	750-662/000-003 ; 753-662/000-003 PROFIsafe V2 iPar, 8 FDI 24 V	299
	750-667/000-003 ; 753-667/000-003 PROFIsafe V2 iPar, 4 FDI/4 FDO 24 V/2 A	300	750-666/000-003 ; 753-666/000-003 PROFIsafe V2 iPar, 4 FDI/2 FDO 24 V/2 A	301
	750-660/000-001 , PROFIsafe, 8 FDI 24 V	302	750-665/000-001 , PROFIsafe, 4 FDO 0.5 A, 4 FDI 24 V	303
Ex i Modules	750-438, NAMUR, Ex i Proximity switch acc. to DIN EN 50227	310	750-435, NAMUR, Ex i Proximity switch acc. to DIN EN 50227	308
	750-535, Ex i Short-circuit protec., high-side switch.	312	750-485, Ex i 4-20 mA, Single-ended (S.E.)	314
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System Modules



Function	System Module	Page	System Module	Page
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24 VDC Supply Modules	750-602 , 24 VDC, passive	330	750-601 , 24 VDC, max. 6.3 A without diagnostics, with fuse carrier	331
	750-610 , 24 VDC, max. 6.3 A with diagnostics, with fuse carrier	332	750-623 , 24 VDC, 5 ... 15 V	333
24 VDC Internal System Supply Module with Bus Power Supply	750-613 , 24 VDC	334		
24 VAC Power Supply Modules	750-617 24 VAC, with fuse carrier	331		
120 VAC Power Supply Module	750-615 , 120 VAC, max. 6.3 A without diagnostics, with fuse carrier	331		
230 VAC Power Supply Modules	750-612 , 0 ... 230 V AC/DC without diagnostics, passive	330	750-609 , 230 VAC, max. 6.3 A without diagnostics, with fuse carrier	331
	750-611 , 230 VAC, max. 6.3 A with diagnostics, with fuse carrier	332		
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Field Side Connection Modules	750-604 / 753-604 0 VDC	339	750-603 / 753-603 24 VDC	338
	750-614 / 753-614 0 ... 230 V AC/DC	337	750-1605 24 VDC	340
	750-1606 0 VDC	341	750-1607 24 V / 0 VDC	342
Separation Modules	750-616 Separation Module	346	750-621 Separation Module with Contacts	346
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	750-606 , Ex i Supply Module	306		