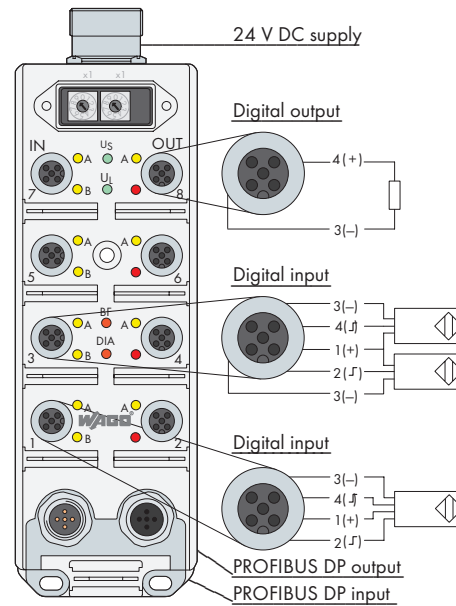


Profibus DP Slave

8 digital inputs, 4 digital outputs



These items are PROFIBUS DP slaves.

Up to 8 digital inputs (see also item nos. 755-881/755-888) can be used to connect standard 3-conductor PNP sensors. As an alternative, up to 4 digital inputs can be used to connect standard 4-conductor PNP sensors. Furthermore, the module has 4 digital outputs allowing the connection of DC actuators. The inputs and outputs are connected via M12 circular connectors. The current supply of the sensors as well as the outputs are short-circuit-proof. A sensor short circuit is indicated by a collective LED. An actuator short circuit is indicated by LEDs for each channel. The status of the inputs is also indicated by LEDs for each channel.

Note: GSD files required

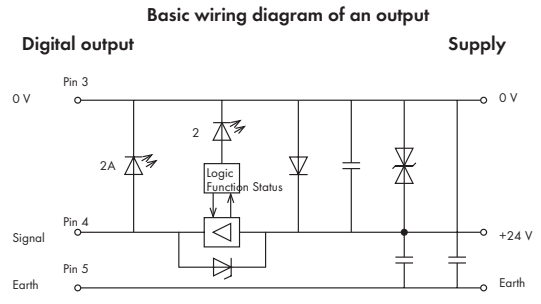
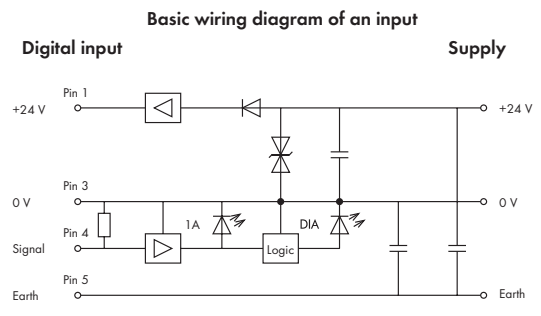
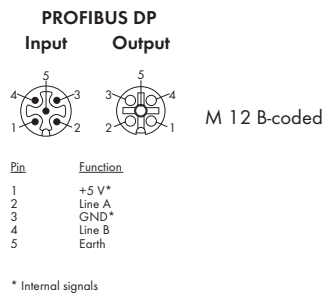
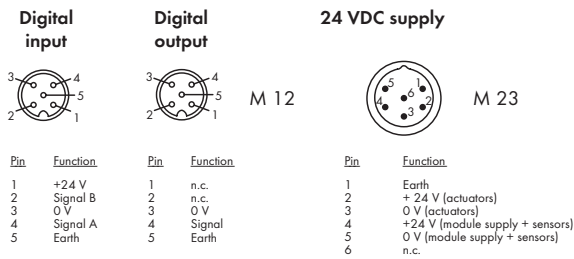
The fieldbus is connected via M12 circular connectors. The status of the fieldbus is indicated by a LED.

The supply voltage is supplied to the module by a M23 circular connector. Various LEDs indicate the channel status.

The power supply of the fieldbus, of the module electronics, and of the sensors are electrically isolated from each other. The power supply of the actuators is separate.

Description	Item No.	Pack. Unit
PROFIBUS DP Slave 8DI 24V + 4DO 24V DC 2A with address switch	755-105	1
PROFIBUS DP Slave 8DI 24V + 4DO 24V DC 2A (without illustration)	755-102	1
Accessories		
Addressing device	Page 468	
Bus cable, power supply cable	Page 469	
Sensor/actuator cable	See section 5, pages 494 ... 507	
Other accessories	Page 472	
GSD files	Download: www.wago.com	
Standards and Approvals		
Standard	EN 50170	
Certification	PNO	
Conformity marking	CE	

System Data	
Total length	depends on baud rate and use of repeater ; example: 400 m for 500 kbaud; 100 m for 12 Mbaud
Topology	Line structure
No. of couplers connected to Master	32 without repeater
Addressing	Address switch (755-105); Addressing device (item no. 755-201); Configuration software
Baud rate	9.6 kbaud ... 12 Mbaud
Communication	Master-slave procedure with cyclical polling
User hierarchy	Master-slave level
Cycle time	depends on number of devices and baud rate
Transmission medium	certified Cu cable
Terminating resistor	yes



Technical Data		
Bus system		
Address range	1...126 dec, default 99 (755-105)	
ID	1...126 dec, default 126 (755-102)	
Power supply - electronics		
Nominal voltage	24 V DC	
Voltage range	19 V ... 28.8 V DC	
Current consumption	max. 60 mA	
Reverse voltage protection	yes	
Operating indicator (U _I)	LED green	
Power supply - sensors		
Nominal voltage (V _s)	24 V DC	
Voltage range	19 V ... 28.8 V DC	
Total current of all sensors	max. 800 mA	
Short circuit protection	yes	
Sensor short circuit indication (DIA)	LED red	
Inputs		
Nominal input voltage	24 V DC	
Input	high-side switching	
Number of digital channels	8	
Status indication for each channel	LED yellow	
Power supply - actuators		
Nominal voltage	24 V DC	
Voltage range	15 V ... 30 V DC	
Electrical insulation	yes	
Reverse voltage protection	yes (unregulated power supply unit required, 10 A medium time-lag fuse)	
Actuator supply indication (U _s)	LED green	
Outputs		
Nominal output current	2 A per channel	
Max. current consumption per module	8 A	
Number of channels	4	
Type of channel	PNP, positive switched; short circuit proof	
Status indication for each channel	LED yellow	

Technical Data		
General specifications		
Degree of protection	IEC IP 67 (NEMA Type 4-6 P)	
Ambient operating temperature	0 °C ... +60 °C	
Weight	645,8 g (755-105)	
	504 g (755-102)	
Dimensions (mm) W x H x L	755-105: 60 x 51 x 197*	
	* including flange sockets	
	755-102: 60 x 51 x 170*	
	* including flange sockets	
Diagnostic indication		
LED 1, 3, 5, 7 A/B	Indicator yellow: channel active	
LED 2, 4, 6, 8 A	Indicator yellow: channel active	
LED 2, 4, 6, 8	Indicator red: actuator short circuit	
LED U _s	Indicator green: actuator supply active	
LED U _I	Indicator green: module supply active	
LED BF	Indicator red: bus error / no data exchange	
LED DIA	Indicator red: module diagnosis (e.g. sensor short circuit)	
Bit assignment		
Byte 0	Bit 0 ... 3 / Actuator 2, 4, 6, 8 (Bit 4 ... 7 / n.c.)	
Byte 1	Bit 0 ... 7 / Sensor 1A, 3A, 5A, 7A, 1B, 3B, 5B, 7B	
Byte 7 (diagnostic message)	Bit 4 / Diagnosis: sensor overload, Bit 5 / Diagnosis: actuator overload, Bit 6 / Diagnosis: low voltage detection	