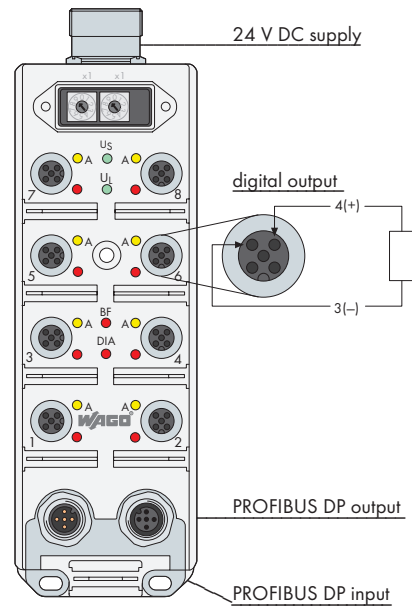


Profibus DP Slave

8 digital outputs;



These items are PROFIBUS DP slaves.

Up to 8 digital outputs can be used to connect DC actuators. The outputs are connected via M12 circular connectors. The outputs are short-circuit-proof. A short circuit is indicated by LEDs for each channel. The status of the inputs is also indicated by LEDs for each channel.

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 and of the module electronics are electrically isolated from each other.

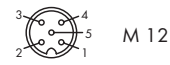
Note: GSD files required

Description	Item No.	Pack. Unit
PROFIBUS DP Slave 8DO 24V DC 2A with address switch	755-106	1
PROFIBUS DP Slave 8DO 24V DC 2A (without illustration)	755-103	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 (755-106); 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



Digital output



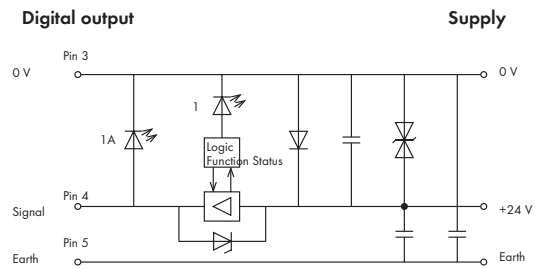
Pin	Function
1	n.c.
2	n.c.
3	0 V
4	Signal
5	Earth

24 VDC supply



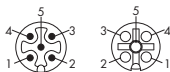
Pin	Function
1	Earth
2	+ 24 V (actuators)
3	0 V (actuators)
4	+24 V (module supply + sensors)
5	0 V (module supply + sensors)
6	n.c.

Basic wiring diagram of an output



PROFIBUS DP

Input Output



M 12 B-coded

Pin	Function
1	+5 V*
2	Line A
3	GND*
4	Line B
5	Earth

* Internal signals

Technical Data

Bus system		
Address range	1...126 dec, default 99 (755-106)	
ID	1...126 dec, default 126 (755-103)	
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 _o)	LED green	
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	15 A	
Number of channels	8	
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	635,2 g (755-106)	
	500 g (755-103)	
Dimensions (mm) W x H x L	755-106: 60 x 51 x 197*	
	* including flange sockets	
	755-103: 60 x 51 x 170*	
	* including flange sockets	
Diagnostic indication		
LED 1 ... 8 A	Indicator yellow: channel active	
LED 1 ... 8	Indicator red: actuator short circuit	
LED U _s	Indicator green: actuator supply active	
LED U _l	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 ... 7 / Actuator 1 ... 8	
Byte 7 (diagnostic message)	Bit 5 / Diagnosis: actuator overload, Bit 6 / Diagnosis: low voltage detection	