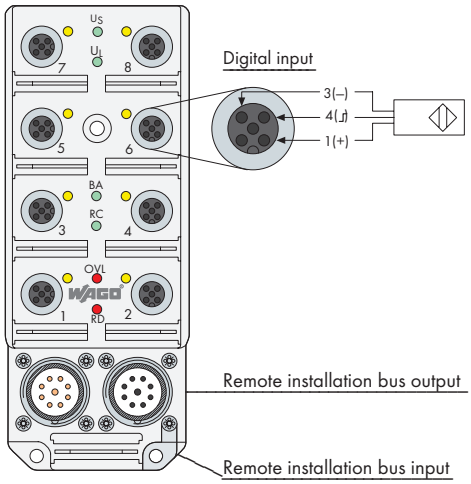
INTERBUS Remote Installation Bus Slave

8 digital inputs



This item is a remote installation bus slave.

Up to 8 digital inputs can be used to connect standard 3-conductor PNP sensors. The inputs are connected via M12 circular connectors. The current supply of the sensors is short-circuit-proof. A short circuit is indicated by a collective LED. The status of the inputs is also indicated by LEDs for each channel.

The fieldbus is connected via M23 circular connectors. The status of the fieldbus is indicated by LEDs.

The supply voltage for the module and for the sensors is derived from the fieldbus connection. LEDs indicate the current status.

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

Description	Item No.	Pack. Unit
INTERBUS Remote Installation Bus Slave 8DI 24V DC	**755-111**	1

Accessories	Item No.
Bus cable, power supply cable	Page 471
Sensor/actuator cable	See section 5, pages 494 ... 507
Other accessories	Page 472

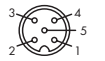
Standards and Approvals

Standard	EN 50254
Certification	INTERBUS CLUB
Conformity marking	CE

System Data

Total length	Remote bus 13 km / remote installation bus 50 m
Total length	Remote bus 400 m / remote installation bus 50 m
Topology	Ring structure
No. of couplers connected to Master	256
Addressing	automatically
Baud rate	500 kbaud
Communication	Shift register message with all information for all devices
User hierarchy	Mono Master
Cycle time	depends on number of devices
Transmission medium	certified Cu cable
Terminating resistor	no

Digital input



M 12

Pin	Function
1	+24 V
2	n.c.
3	0 V
4	Signal
5	Earth

Remote installation bus Input

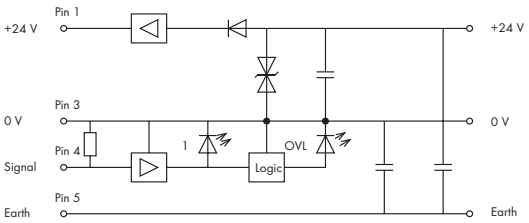
Pin	Function
1	DO
2	DO
3	DI
4	DI
5	GND
6	Earth
7	+ 24 V
8	0 V
9	n.c.
Enclosure	Earth

Remote installation bus Output

M 23

Pin	Function
1	DO
2	DO
3	DI
4	DI
5	GND
6	Earth
7	+ 24 V
8	0 V
9	RBST
Enclosure	Earth

Basic wiring diagram of an input



Technical Data

Slave profile	
ID code	10 dec.
Power supply - electronics	
Nominal voltage	24 V DC
Voltage range	19 V ... 30 V DC
Current consumption	max. 70 mA
Reverse voltage protection	yes
Operating indicator (U_L)	LED green
Power supply - sensors	
Nominal voltage (Vs)	24 V DC
Voltage range	19 V ... 30 V DC
Total current of all sensors	max. 400 mA
Short circuit protection	yes
Sensor short circuit indication (OVL)	LED red
Sensor supply indication (U_S)	LED green
Inputs	
Nominal input voltage	24 V DC
Input	high-side switching
Number of digital channels	8
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	500 g
Dimensions (mm) W x H x L	60 x 48 x 152*
	* including flange sockets
Diagnostic indication	
LED 1 ... 8	Indicator yellow: channel active
LED U_S	Indicator green: sensor supply active
LED U_L	Indicator green: module supply active
LED BA	Indicator green: bus active
LED RC	Indicator green: remote bus input
	connected
LED RD	Indicator red: remote bus output
	disconnected
LED OVL	Indicator red: sensor short circuit
Bit assignment	
Byte 1	Bit 0 ... 7 / Sensor 1 ... 8