AS-i/InterBus Gateway

Bihl + Wiedemann

Automatisierungstechnik

AS-i Gateways to InterBus

Remote bus
in protection class IP65

Easy configuration
with CMD by
Phoenx Contact

Advanced AS-i diagnostics

Remote bus

Function

The AS-i/InterBus Gateway serves to connect the Actuator-Sensor-Interface to the InterBus. The Gateways acts as a complete Master for the AS-i and as a slave for InterBus.

The high protection category IP65 of the AS-i/InterBus Gateway as remote bus slave makes the device suitable for applications in the extreme industrial environments frequently encountered in the field. AS-i is connected using the penetration technique of EMS (Electromechanical Interface). InterBus is connected with heavy gauge terminals.

Commissioning, debugging and setting up of the AS-i parameters can be accomplished with the use of two push-buttons, the display and the LEDs directly on the system as with all AS-i Masters of Bihl+Wiedemann. It is also possible to do the configuration of AS-i with the CMD software. Advanced diagnostics to detect occasional occurring errors and judge the quality of the AS-i communication can be executed as well with the CMD software.

The Gateway transmits the AS-i I/O data and AS-i flags cyclically within 9 InterBus words of the process data channel. All AS-i functions can be called up via PCP objects.

InterBus module error can be configured to be caused by AS-i configuration error or AS-i power fail.

Article No.	**BW1127**
Connections	AS-i: electromechanical interface (penetration technique) InterBus: heavy gauge terminals and clamp terminal blocks
InterBus interface	InterBus Remote Bus
Operating current	Master power supply A, approx. 200 mA out of AS-i circuit
Operating voltage	AS-i voltage 30 V DC
AS-i cycle time	150 µs*(Number of slaves + 1)
Displays	
Display	AS-i slave addresses and error messages
LED green (UL)	Power on
LED green (CC)	Cable check
LED red (config error)	Configuration error
LED green (U AS-i)	AS-i voltage OK
LED green (AS-i active)	AS-i normal operation active
LED green (prg enable)	Automatic address programming ebabled
LED yellow (prj mode)	The master is in configuration mode
LED green (BA)	InterBus acktive
LED green (TR)	PCP active
LED red (RD)	Remote out is switched off
Push-buttons	2 (mode/set)
Voltage of insulation	≥ 500 V
EMC directions	EN 50082, EN 50081
Operating temperature	0°C … +55°C
Storage temperature	-25°C … +85°C
Housing	
Dimensions (L, W, H)	90 mm, 80 mm, 70 mm
Protection category (DIN 40 050)	Housing IP65
Weight	355 g
AS-i specification	2.0

Connection of InterBus (remote bus) interface on terminal block and arrangement on circuit board

1	/DI2
2	DI2
3	Shield
4	FE
5	Shield
6	DO1
7	/DO1
8	/DO2
9	DO2
10	GND_D2
11	
12	GND_D1
13	/DI1
14	DI1

Buttons