AS-i 3.0 RS 232 Master in Stainless Steel



AS-i 3.0 Master with serial interface

1 AS-i Master

RS 232 interface

Graphical display

B+W standard protocol for communication with the host







Figure	Туре	Model	Fieldbus interface ⁽¹⁾	Number of AS-i networks, number of AS-i Master ⁽²⁾	1 gateway for		AS-i fault detector ⁽⁵⁾	Program- ming in C ⁽⁶⁾	Article no.
	RS 232 AS-i	Gateway	RS 232	1 AS-i network, 1 AS-i Master	no, max. 8 A/AS-i network	no	yes	no	BWU1955

(1) Fieldbus interface

Communication interface between fieldbus and gateway: interfaces for standardized fieldbus systems in industrial automation. **PROFINET AS-i Gateway**: interface for a PROFINET fieldbus

- (2) Number of AS-i networks, number of AS-i Master
 - "Single Master": 1 AS-i network, 1 AS-i Master.
 - "Double Master": 2 AS-i networks, 2 AS-i Masters.
- (3) 1 power supply, 1 gateway for 2 AS-i networks, inexpensive power supplies

"yes, max. 4 A/AS-i network": Cost-effective power for 2 AS-i networks with 1 power supply (optionally supply of multiple Single Gateways by 1 power supply). Operation with short cable lengths with standard 24 V power supply possible.

"no, max. 8 A/AS-i network, redundant supply": 1 power supply per AS-i network. Gateway is powered in normal operation from one of the two AS-i power supplies. Should one AS-i power supply fail, switching to the other AS-i power supply allows all the diagnostics functions to be maintained and the unaffected AS-i network continues to operate.

"no, max. 8 A/AS-i network": 1 power supply per AS-i network.

(4) Recognition of duplicate AS-i addresses

Detects whether the same address has been assigned to two AS-i slaves. Frequent error when using a handheld addressing device.

(5) AS-i fault detector

Checks the AS-i line for interference effects such as noise, external voltages, \dots

(6) Programming in C

Using a C-program offers the possibility to run mini-PLC functions with a gateway.

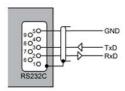
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Article no.	BWU1955					
Interface						
Interface	RS 232 Interface					
Baud rate	1200, 2400, 4800, 9600, 19200, 38400 oder 57600 Baud, automatic recognition					
AS-i						
AS-i specification	3.0					
Cycle time	150 μs * (number of slaves + 2)					
Operating voltage	30 V _{DC} (20 31,6 V) (PELV voltage)					
Display						
LCD	menu, AS-i indication of slave addresses, error messages in plain text					
LED power (green)	power ON					
LED ser active (green)	RS- 232 communication active					
LED config error (red)	configuration error					
LED U AS-i (green)	AS-i voltage o.k.					
LED AS-i active (green)	AS-i normal operation active					
LED prg enable (green)	automatic address programming enabled					
LED prj mode (yellow)	in configuration mode					
UL-specifications (UL508)						
External protection	An isolated source with a secondary open circuit voltage of ≤30 V _{DC} with a 3 A maximum over cur-					
	rent protection. Over current protection is not required when a Class 2 source is employed.					
In general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.					
Environment						
Applied standards	EN 61000-6-2					
	EN 61000-6-4					
Operating altitude	max. 2000 m					
Operating temperature	0 °C +55 °C					
Storage temperature	-25 °C +85 °C					
Housing	Stainless Steel, for DIN rail mounting					
Protection category	IP20					
Tolerable loading referring to impacts and vibrations	according to EN 61131-2					
Voltage of insulation	≥500 V					
Weight	460 g					
Dimensions (W / H / D in mm)	75 / 120 / 83					

	Operating current					
Article no.	Master power supply, ca. 200 mA out of AS-i circuit	Master power supply, max. 200 mA out of AS-i circuit 1 (ca. 70 mA 200 mA), max. 200 mA out of AS-i circuit 2 (ca. 70 mA 200 mA); in sum max. 270 mA	Version "1 gateway, 1 power supply for 2 AS-i networks", approx. 250 mA (PELV voltage)			
BWU1955	•	-	-			

Pin assignment:



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Accessories:

- Software for diagnostics, service approval and measurements (art. no. BW2902)
- 24 V to 30 V AS-i power supply 2 A (art. no. BW1760)
- D-sub-data cable 9-pin, 1,8 m (art. no. BW1058)
- Power supplies, e.g.: AS-i power supply, 4 A (art. no. BW1649), AS-i power supply, 8 A (art. no. BW1997)
 (further power supply units can be found at www.bihl-wiedemann.de/en/products/accessories/power-supplies)