

AS-i Advanced Repeater, IP20

Circuit Extension by more than 100 m

On-Board Diagnostics AS-i Fault

Galvanic isolation

No programming required

**Passive on the AS-i network
(no slave address required)**

Simple mounting next to the AS-i power supply



(figure similar)



Article no. BWU1855: AS-i Advanced Repeater (Circuit extension by more than 100 m)

The AS-i Repeater with On-Board Diagnostics has got a LED for power supply and AS-i communication errors. The red AS-i Fault LED flashes as long as there is no AS-i communication. The communication error LED will help the customer to find basic installation problems really fast. The new AS-i Repeaters are compatible with all existing AS-i Repeaters.

Especially the AS-i Repeaters in IP20 can be easily mounted into the switchboard in combination with an AS-i power supply.

Together with the AS-i Tuner and the AS-i Bus Termination, the AS-i Repeater from Bihl+Wiedemann is a perfect package for every AS-i network.

Article no.	BWU1855
Connection	
AS-i connection	COMBICON plug Push-in terminals ⁽¹⁾
AS-i	
Address	The AS-i Repeater does not occupy any slave address. The total amount of the slaves (31 respectively 62) per AS-i network remains constant. No programming required.
Operating voltage	30 V (18 ... 31.6 V)
Operation current	60 mA (per network segment), 120mA (total)
Quantity of required AS-i power supplies	1 additionally (as any AS-i Repeater)
Display	
PWR AS-i Seg.B (green)	AS-i power segment B
FAULT AS-i Seg.B (red)	AS-i communication error segment B
PWR AS-i Seg.A (green)	AS-i power segment A
FAULT AS-i Seg.A (red)	AS-i communication error segment A
Environment	
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 60529
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +55 °C (up to max. +70 °C) ⁽²⁾ ⁽³⁾ (no condensation permitted)
Storage temperature	-25 °C ... +85 °C
Pollution degree	2
Housing	plastic, for DIN rail mounting
Protection category	IP20
Tolerable loading referring to humidity	according to EN 61131-2
Electromagnetic sustainability	according to slave specification

Article no.	BWU1855
Voltage of insulation	≥500 V
Dimensions (W / H / D in mm)	22,5 / 99 / 114 ⁽²⁾

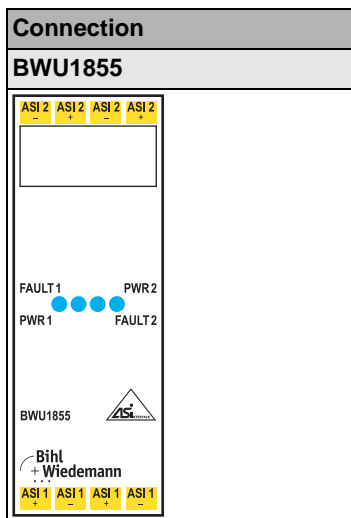
(1) see table „Wiring instructions“

(2) from Ident.No. ≥ 16240 (see lateral label).

(3) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada.

Wiring instructions

Push-in terminals	
General	
Nominal cross section	2,5 mm ²
Conductor cross section	
Conductor cross section solid	0,2 ... 2,5 mm ²
Conductor cross section flexible	0,2 ... 2,5 mm ²
Conductor cross section flexible, with ferrule	without plastic sleeve: 0,2 ... 2,5 mm ²
	with plastic sleeve: 0,25 ... 2,5 mm ²
2 conductors with same cross section, stranded, with TWIN ferrules	without plastic sleeve: 0,5 ... 1,5 mm ²
AWG	24 ... 14
Stripped insulation length	10 mm



Accessoires:

- AS-i power supply (art. no. BW1649)
- AS-i bus termination (art. no. BW1644)
- AS-i Tuner (art. no. BW1648)
- AS-i Repeater in IP65 (art. no. BW1273)
- AS-i Analyser (art. no. BW1415)
- Double level push-In terminals kit for AS-i and AUX (art. no. BW3420)