

WLAN HGW Base Station BWH 011



The BWH 011 base station serves as the gateway of a connection between an HGW and a machine control. Safety (via Black Channel), as well as non-Safety data can be redundantly transmitted – independent of the S-DIAS control used (e.g. CP/SCP 111).

States can be displayed via programmable LEDs. The base station can also communicate with other controls over Ethernet interfaces.

Performance Data

Processor	EDGE2 Technology
Processor cores	1
Internal cache	32-kbyte L1 Instruction Cache 32-kbyte L1 Data Cache 512-kbyte L2 Cache
Internal program and data memory (DDR3 RAM)	256 Mbytes
Internal remnant data memory	no
Internal storage device	1-Gbyte microSD card
Internal I/O	no
Interfaces	1x M12 connector supply and Ethernet 1x M12 connector Ethernet 1x USB 2.0 Type-C (Dual Role Port) 1x WLAN dual-band (2.4 GHz, 5 GHz simultaneously) 1x LED connection for the blink-code output

Status LEDs	1x Power 1x HGW-Link (freely programmable) 2x Network (freely programmable) 1x application/RUN-LED
Signal generator	no
Cooling	passive (fanless)
Coupling confirmation	by means of a signal light: either via external control with digital output (e.g.: CP 111 with TO 161) or via the internal LED connection
Input voltage measurement	no

Electrical Requirements

Supply voltage	+24 V DC ±20 % (SELV/PELV)
Protection class	3
Inrush current	16.1 A for 1 ns
Current consumption of +24 V power supply	ca. 200 mA in CLI
USB Host current load	maximum 0.5 A

Environmental Conditions

Storage temperature	-5 ... +60 °C
Environmental temperature	0 ...+50 °C
Humidity	10-95 %, non-condensing
Installation altitude above sea level	0-2000 m without derating > 2000 m up to a maximum of 5000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m
Operating conditions	pollution degree 2
EMC resistance	in accordance with EN 61000-6-2 (industrial area)
EMC noise generation	in accordance with EN 61000-6-4 (industrial area)
Vibration resistance	EN 60068-2-6 5-150 Hz: amplitude 3.5 mm Transition frequency: 8.42454 Hz acceleration: 1 g duration: 10 cycles cycle: 1 octave/minute
Shock resistance	EN 60068-2-27 15 g (147.15 m/s ²),
Protection type	EN 60529 IP54
Free fall(with packaging)	IEC 60068-2-32 1000 mm

WLAN 2.4 GHz

Frequency range	2399.5-2484.5 MHz
Transmission power max.	20 dBm (100 mW) EIRP
Channels	1-13 (2412-2472 MHz)
Standards	IEEE 802.11 b/g/n

WLAN 5 GHz		
	Frequency range	5150-5350 MHz 5470-5725 MHz
	Transmission power max.	23 dBm (200 mW) EIRP
	Channels	36-48 (5180-5240 MHz) 149-165 (5745 – 5825 MHz)
	Standards	IEEE 802.11 a/n/ac

Antennae		
	Number	2
	Frequency range	2.4/5 GHz (Dual-Band)
	Transmission power max.	25 W
	Antenna gain	2.4 GHz-4 dBi Peak Gain 5 GHz-5.2 dBi Peak Gain
	Impedance	50 Ω
	Transmission angle/characteristic	transmission characteristics omnidirectional Polarization: linear

Article Number and Miscellaneous		
	Article number	12-246-011
	Approvals	CE
	Dimensions	175 x 267.4 x 52.9 mm (W x H x D)
	Material	housing: aluminum Color: anodized natural
	Weight	typically 0.4 kg

Notes