

Active Distributor ASi-5, IP67, M8

New Standard ASi-5

2 x connectors for profile cable

Periphery connection via M8 cable socket, straight, 4 poles

1 RGB light (3 x PWM outputs, 0 ... 24 V, NPN)

to control RGB lights via ASi



(Figure similar)



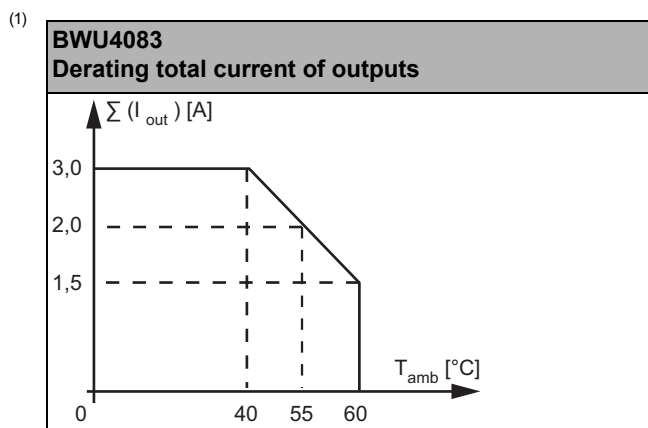
Figure	Type	RGB light ⁽¹⁾	Input voltage (sensor supply) ⁽²⁾	Output voltage (actuator supply) ⁽³⁾	ASi connection ⁽⁴⁾	Connection ⁽⁵⁾	ASi address ⁽⁶⁾	Special function	Art. no.
	IP67, depth 35 mm	1 x RGB output	–	out of AUX	ASi profile cable	1 x M8 cable socket, straight, 4 poles	1 ASi-5 address	to control RGB lights via ASi	BWU4083

- (1) **RGB light:** each RGB output consists of three separate PWM outputs (0 ... 24 V, NPN), one for each RGB color channel. To select a RGB light color one is able to freely adjust the brightness of each RGB color channel from 0 .. 255 by setting an 8 bit value
- (2) **Input voltage (sensor supply):** inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.
- (3) **Output voltage (actuator supply):** outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, outputs shall not be connected to earth or to external potential
- (4) **ASi connection:** the connection to ASi as well to AUX (auxiliary 24 V power) is made via yellow resp. black ASi profile cable with piercing technology or via M12 socket (in IP20 via clamps).
- (5) **Connection:** further connection options are available on request.

M12 cable socket, angled	M12 cable socket, straight	M8 cable socket, straight	round cable / connecting wires	Push in terminals
PUR line: oil resistant				

- (6) **ASi address:** AB addresses (max. 62 AB addresses/ASi network), 2 AB addresses (max. 31 modules with 2 AB addresses), Single addresses (max. 31 Single addresses/ASi network), ASi-5 address (max. 62 ASi-5 addresses/ASi network), mixed use allowed. Upon request, ASi-3 nodes are available with specific ASi node profiles. For modules with two ASi-3 nodes the 2nd ASi-3 node is turned off as long as the 1st ASi-3 node is addressed to address "0".

Article No.		BWU4083
General data		
Device type		RGB output (PWM output)
Connection		
ASi/AUX connection		profile cable and piercing technology
Periphery connection		1 x M8 cable sockets, straight, 4 poles
Round cable		1 m
		max. allowed tensile strain 10 N
ASi		
Address		1 ASi-5 address
Required Master profile		≥M5
As of ASi specification		5
ASi process data width		3 byte
Operating voltage		30 V (18 ... 31.6 V)
Max. current consumption		45 mA
Max. current consumption without sensor/ actuator supply		45 mA
AUX		
Operating voltage		24 V (18 ... 30 V _{DC})
Max. current consumption		3 A
Output		
Number		1 x RGB output (3 x PWM output, 0 ... 24 V, NPN)
Power supply		out of AUX
Max. output current	up to +40 °C	1 A per RGB color channel (PWM output), \sum (Out) ≤3 A ⁽¹⁾
	at +55 °C	1 A per RGB color channel (PWM output), \sum (Out) ≤2 A ⁽¹⁾
	at +60 °C	1 A per RGB color channel (PWM output), \sum (Out) ≤1,5 A ⁽¹⁾
Display		
LED ASi (green)		on: ASi voltage OK flashing: ASi voltage on, but peripheral fault ⁽²⁾ or address 0 off: no ASi voltage
LED FLT/FAULT (red)		on: ASi address 0 or ASi node offline flashing: peripheral fault ⁽²⁾ off: ASi node online
LED AUX (green)		on: 24 V _{DC} AUX off: no 24 V _{DC} AUX
LED RGB (yellow)		state of RGB output (3 x PWM output, 0 ... 24 V, NPN)
Environment		
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529
Operating altitude		max. 2000 m
Ambient temperature		-30 °C ... +60 °C ⁽¹⁾⁽³⁾
Storage temperature		-25 °C ... +85 °C
Housing		plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)
Pollution degree		2
Protection category		IP67 ⁽⁴⁾
Maximum tolerable shock and vibration stress		≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude
Insulation voltage		≥500 V
Weight		100 g
Dimensions (W / H / D) in mm		60 / 45 / 35



(2) see table "Peripheral fault indication"

(3) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

(4) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

UL-specifications (UL61010)	
BWU4083	
External protection	An isolated source with a secondary open circuit voltage of ≤30 V _{DC} with a 3 A maximum over current 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.

Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU4083	-	•	•

Programming: ASi bit assignment

Article no.	Byte	Bit							
		D0	D1	D2	D3	D4	D5	D6	D7
BWU4083	0	RGB color channel 1 brightness 0 ... 255							
	1	RGB color channel 2 brightness 0 ... 255							
	2	RGB color channel 3 brightness 0 ... 255							

Pin assignment

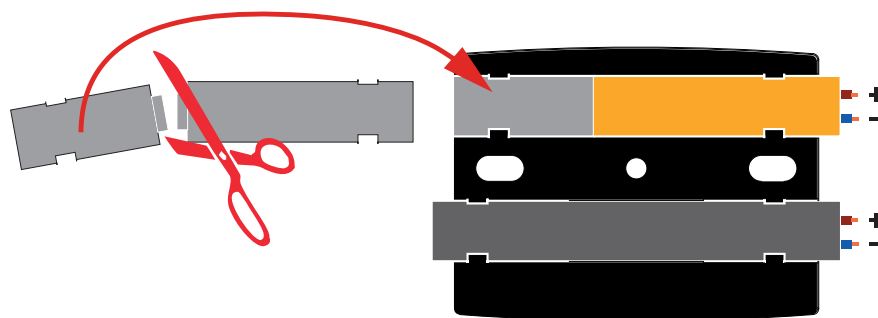
Signal name	Explanation
Ch x	RGB color channel x (PWM output x)
24V _{ext out}	power supply, out of external voltage, positive pole
0V _{ext out}	power supply, out of external voltage, negative pole
ASi +, ASi -	connection to ASi bus
n.c. (not connected)	not connected

Connections: M8 cable sockets, straight, 4 poles					
Article no.	M8 connection	Pin1	Pin2	Pin3	Pin4
BWU4083	X1	24V _{ext out}	Ch 1	Ch 2	Ch 3

Line termination with sealing profile



max. IP54



Accessories:

- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)