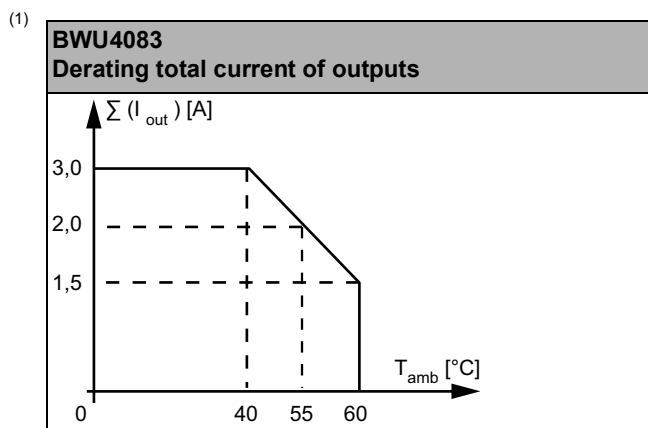


Article No.	BWU4083	
General data		
Device type	RGB output (PWM output)	
Connection		
ASi/AUX connection	profile cable and piercing	
Periphery connection	1 x M8 cable sockets, straight, 4 poles	
Round cable	1 m	
	max. allowed tensile strain 10 N	
ASi		
Address	1 ASi-5 address	
Required Master profile	≥M5	
As of ASi specification	5	
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), $\sum (\text{Out}) \leq 3 \text{ A}^{(1)}$
	at +55 °C	1 A per RGB color channel (PWM output), $\sum (\text{Out}) \leq 2 \text{ A}^{(1)}$
	at +60 °C	1 A per RGB color channel (PWM output), $\sum (\text{Out}) \leq 1,5 \text{ A}^{(1)}$
Display		
LED ASi (green)	on: AS-i voltage on flashing: ASi voltage on, but peripheral fault ⁽²⁾ or address 0 off: no ASi voltage	
LED FLT/FAULT (red)	on: address 0 or offline flashing: peripheral fault ⁽²⁾ off: 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
		RGB output							
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

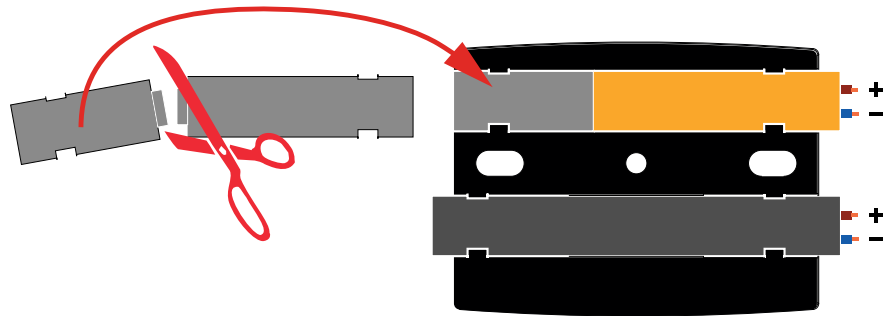
Signal name	Explanation
Ch x	RGB color channel x (PWM output x)
24V _{ext out}	power supply, out of external voltage, positive pole
0V _{ext out}	power supply, out of external voltage, negative pole
ASi +, ASi -	connection to ASi bus
n.c. (not connected)	not connected

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. BW4708)