Power Limiting Module, IP20, 22,5 mm



2x inputs (In1 galvanically isolated to In2) to 2x current controlled outputs (Out1 galvanically isolated to Out2)

Limited Energy Circuits in accordance with:

- UL 61010-1 and UL 61010-2-201
- CAN/CSA C22.2 No. 61010-1 and CAN/CSA C22.2 No. 61010-2-201

Output current limited at ≤ 3 A per output

Electronic self-resetting fuses

Operating voltage 19 ... 32 V











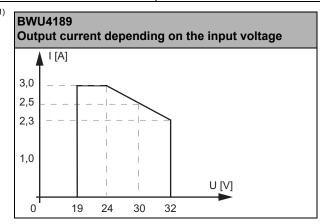
Figure	Туре	Inputs	Output	Operating voltage	Output current	Connections	Article No.
300	IP20, 22,5 mm x 114 mm, 2 x 4 contacts	2	2 x (Limited Energy Circuits)	ASi or 19 32 V _{DC}	≤ 3 A per output	Push-in terminals	BWU4189

Article no.		BWU4189		
General data				
Device type		power limiting module		
Connection				
Input connection		Push-in terminals		
Output connection		Push-in terminals		
Input				
Number		2 (In1 galvanically isolated to In2)		
Input voltage		ASi or 19 32 V _{DC} ^{(1) (2)}		
Input current		depending on network configuration		
Output				
Number		2 (Out1 galvanically isolated to Out2) ⁽³⁾ Limited Energy Circuits in accordance with: • UL 61010-1 and UL 61010-2-201 • CAN/CSA C22.2 No. 61010-1 and CAN/CSA C22.2 No. 61010-2-201		
Output voltage		ASi or 19 32 V _{DC}		
Output current	up to +40 °C at +55 °C	≤ 3 A per output ⁽⁴⁾ ≤ 2,3 A per output at 32 V _{DC} ⁽¹⁾ ≤ 3 A per output ⁽⁴⁾ at 24 V _{DC} ⁽¹⁾		
	at +70 °C	≤ 2,3 A per output at 32 V _{DC} ⁽¹⁾ ≤ 2 A per output ⁽⁴⁾		
Display				
LED In1, In2 (green)		on: input voltage on off: no input voltage		
LED FLT1, FLT2 (red)		on: overload output or overvoltage or undervoltage input		

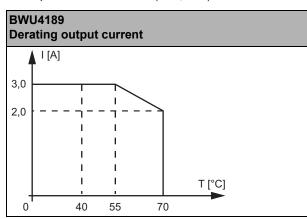
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Article no.	BWU4189			
Environment				
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131 EN 60529			
Operating altitude	max. 2000 m			
Ambient temperature	-25 °C +70 °C			
	no condensation permitted			
Storage temperature	-25 °C +85 °C			
Housing	plastic, for DIN rail mounting			
Pollution Degree	2			
Protection category	IP20			
Overvoltage category	II			
Tolerable loading referring to humidity	according to EN 61131-2 10% to 95%, non-condensing, according to EN 61131-2			
Voltage of insulation	≥ 860 V _{AC} (valid between the both channels (In1+Out1 to In2+Out2))			
Weight	150 g			
Dimensions (W / H / D in mm)	22,5 / 99 / 114			
Mounting position	vertical (mounting rail horizontal, clamps pointing upwards and downwards) (5)			
Mounting	Can be combined with Bihl+Wiedemann devices of the same design and neighboring devices up to an ambient temperature of +40 °C. For higher temperatures a minimum distance of 10 mm to neighboring active devices must be provided.			



- $^{(2)}$ The power supply unit for supply must have safe mains isolation acc. to IEC 60742.
- (3) The outputs of the both channels (Out1, Out2) must not be connected in parallel and both channels must not be connected in series.



(5) Make sure there is adequate ventilation. The supply air temperature at the bottom of the housing may not exceed values specified under ambient temperature.

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Please observe the following instructions. For more information see installation instructions.

- Safety precautions and warnings are designated by the Δ symbol.
- Bihl und Wiedemann GmbH is not liable for damage resulting from improper use of its equipment. Familiarity with these instructions constitutes part of the knowledge required for proper use.
- The device should be installed in a control cabinet with a protection type of at least IP54!
- The device may only be operated within the limits of its technical specifications. It may only be operated with the specified current and voltage values.
- The 24 V must be supplied by a PELV power supply.

Wiring rules

	Push-in terminals, 2 /3 /4 poles (pitch 5 mm)		
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	without plastic sleeve: 0.25 2.5 mm ²		
flexible, with ferrule	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		

Connections

Name	Explanation
In x	input x
Out x	output x (corresponding with input x but current controlled) Limited Energy Circuits in accordance with:
	 UL 61010-1 and UL 61010-2-201 CAN/CSA C22.2 No. 61010-1 and CAN/CSA C22.2 No. 61010-2-201

