Power Limiting Device, 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 \leq 3 A per output

Electronic self-resetting fuses

Operating voltage 19 ... 32 V



Figure	Туре	Inputs	Output	Operating voltage	Output current	Connections	Article No.
2003 2003 2004	IP20, 22,5 mm x 114 mm, 6 x COMBICON	2	2 x (Limited Energy Circuits)	ASi or 19 32 V _{DC}	≤ 3 A per output	clamps	BWU4189

Article no.		BWU4189	
General data			
Device type		power limiting device	
Connection			
Input connection		COMBICON plug	
Output connection		COMBICON plug	
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	≤ 3 A per output ⁽⁴⁾ ≤ 2,3 A per output at 32 V _{DC} ⁽¹⁾	
	at +55 °C	\leq 3 A per output ⁽⁴⁾ at 24 V _{DC} ⁽¹⁾ \leq 2,3 A per output at 32 V _{DC} ⁽¹⁾	
	at +70 °C	≤ 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	



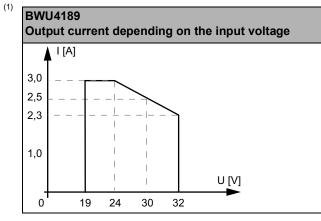
(Figure similar)

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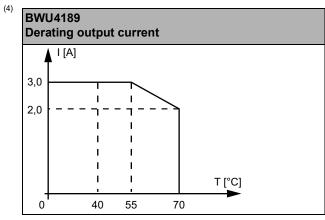
Power Limiting Device, IP20, 22,5 mm



Article no.	BWU4189				
Environment	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	ll				
Tolerable loading referring to humidity	according to EN 61131-2 10% to 95%, non-condensing, according to EN 61131-2				
Voltage of insulation	\ge 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 $m \Delta$ 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.

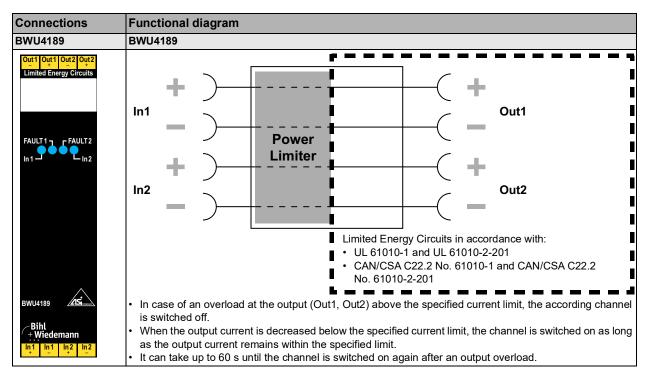
- The device should be installed in a control cabinet with a protection type of at least IP54!
- The device may only be operated within the limits of its technical specifications. It may only be operated with the specified current and voltage values.
 - The 24 V must be supplied by a PELV power supply.

Wiring rules

	Push-in terminals		
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: 0.2 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
ln 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



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