

## Safe electronic output 10 A / 20 A

Safe contact expansion module 10 A / 20 A

Applications up to category 4/PLe/SIL 3



(Figure similar)

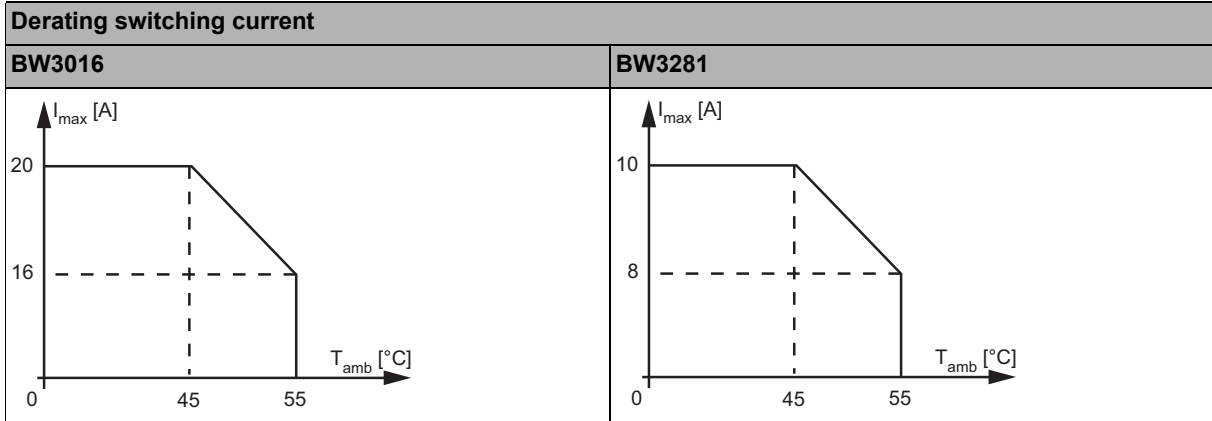
Article no. BW3016: Safe electronic output 20 A

Article no. BW3281: Safe electronic output 10 A

Article no.	BW3016	BW3281
<b>General data</b>		
Type of device	safe electronic output 20 A	safe electronic output 10 A
Number of contact sets per channel	1	
<b>AUX</b>		
Voltage	24 V (18 ... 30 V)	
Max. current consumption	100 mA + load current	
External fuse	20 A, slow-blow	10 A, slow-blow
<b>Input</b>		
Number	1 x electronic safe input	
Signal level	0-signal: < 5 V <sub>DC</sub> 1-signal: > 10 V <sub>DC</sub>	
Permissible test pulse time	max. 1,5 ms	
Switching frequency	max. 1 Hz	
<b>Output</b>		
Number	contact expansion, 1 x electronic safe output	
Power supply	out of AUX	
Output current	max. 20 A <sup>(1)</sup>	max. 10 A <sup>(1)</sup>
Capacitive load	max. 1,7 mF	
<b>EDM Output</b>		
Current	max. 20 mA	
Voltage drop	max. 4 V	
<b>Display</b>		
LED PWR (green)	power supply present	
LED CH1 (yellow)	lights: output on	
LED EDM1 (yellow)	lights: output off	
LED TST (yellow)	only when both switches are set to 1: lights up when the automatic test pulse mode is activated, since for too long time no shutdown has been detected. Is maintained until the next switch off of the supply voltage	

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<b>Environment</b>		
Applied standards	EN 62061, SIL 3 EN 61508, SIL 3 EN ISO 13849-1, PL <sub>e</sub> EN 60529	
Operating altitude	max. 2000 m	
Ambient temperature	0 °C ... +45 °C (+55 °C at max. 16 A) <sup>(1)</sup>	0 °C ... +45 °C (+55 °C at max. 8 A) <sup>(1)</sup>
Storage temperature	-25 °C ... +85 °C	
Housing	plastic, for DIN rail mounting	
Protection class	IP20	
Tolerable loading referring to humidity	according to EN 61131-2	
Maximum tolerable shock and vibration stress	according to EN 61131-2	
Voltage of insulation	≥500 V	
Weight	160 g	
Dimensions (W / H / D in mm)	22,5 / 99 / 114	

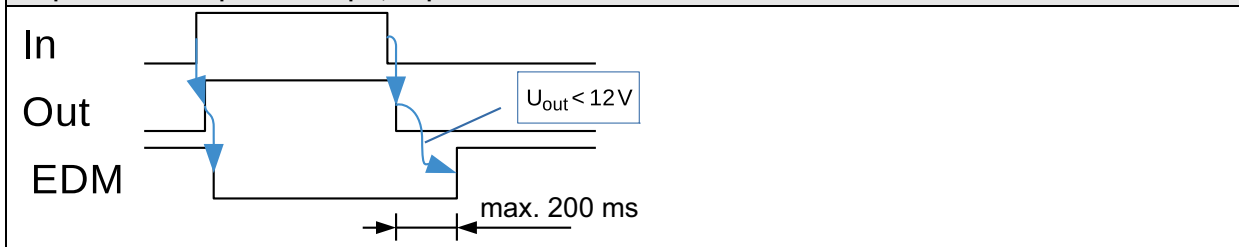
(1)



### Test pulse (BW3016, BW3281)

Switch setting	
	Every 28.800 sec (8 h) test pulses will be generated, if not an operational shutdown is done before.
	No test pulses generated. SIL3 is not achievable in this operation mode!
	no valid operation mode
	no valid operation mode
	no valid operation mode
	no valid operation mode

## Temporal relationship between input, output and EDM



## Terminal assignment

Clamps	Description
0 V	Supply, 0 V of the module
1.A1	Switching input
1.52	EDM output, negative pole
1.51	EDM output, positive pole
24 V	Supply, 24 V for output and module
1.14	output

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