

WAVEGUARD electronic fusing

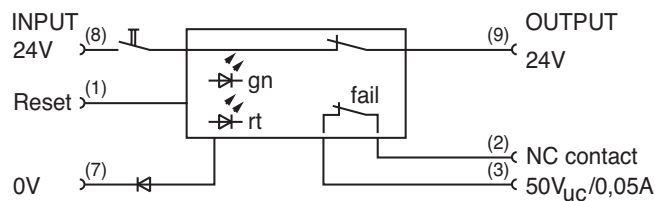
Owing to their technical characteristics, switch-mode power units cannot supply a dynamic output current, or at best only a very limited one. For protection in the case of an overload, the device switches to a current limit and reduces the voltage. As this means that sufficient power is no longer available, circuit-breakers and cartridge fuses do not operate reliably. Selective electronic fusing eliminates detrimental cross-coupling between parallel current paths, protects and switches off only the defective circuits. That results in high system availability and minimises the troubleshooting workload in the ever more complex systems.

Additional reset input

The reset input can be switched with a voltage pulse for remote resetting of the system, and the load circuit is closed again with the trailing pulse edge. A cyclic automatic reset is not permissible and is also inadvisable for safety reasons.

Visual signalling and floating signal contact

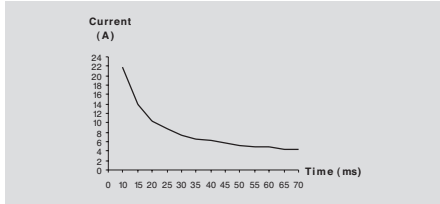
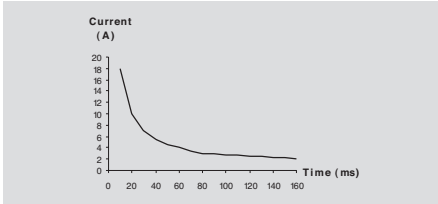
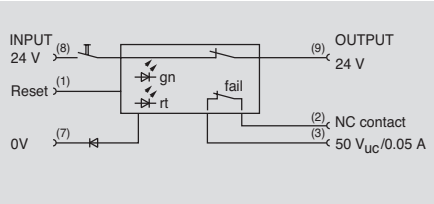
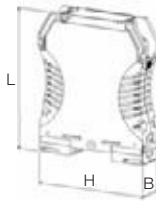
It is necessary to signal one malfunction: the switching status of the fuse is shown by the integral LED and the signal contact (NCC). This speeds up troubleshooting and therefore reduces maintenance costs.



WAVEGUARD

24 V DC 1.6 A

24 V DC 3.15 A



Technical data

Input	
Rated voltage	24 V DC
Rated current	1.6 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Input	
Rated voltage	24 V DC
Rated current	3.15 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Input	
Rated voltage	24 V DC
Rated current	3.15 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Dimensions	
Clamping range (rating- / min. / max.)	mm²
Length x width x height	mm
Note	

Screw connection	Tension clamp connection
2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
92.4 x 22.5 x 72	92.4 x 22.5 x 72
Note	
Periodic auto-reset not permitted; Tu=23°C, single module	

Screw connection	Tension clamp connection
2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
92.4 x 22.5 x 72	92.4 x 22.5 x 72
Note	
Periodic auto-reset not permitted; Tu=23°C, single module	

Ordering data

Connection system	
	Screw connection
	Tension clamp connection
Note	

Type	Qty.	Order No.
WGS 24Vdc 1.6A	1	8618890000
WGZ 24Vdc 1.6A	1	8621040000
Note		

Type	Qty.	Order No.
WGS 24Vdc 3.15A	1	8618910000
WGZ 24Vdc 3.15A	1	8621030000
Note		

Accessories

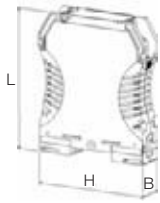
Note
Supply voltage +24V and 0V can be cross-connected with ZQV 2.5N/2

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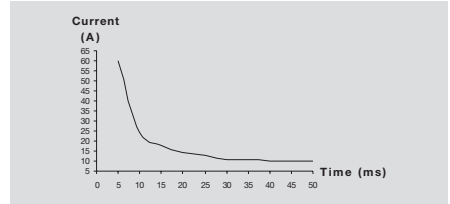
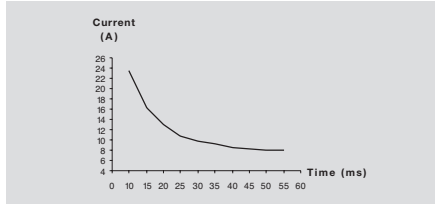
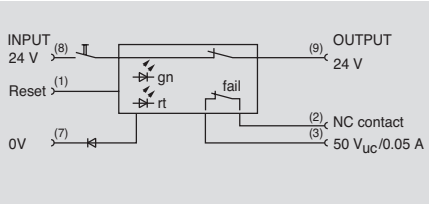
Fuse for 24 V DC electric circuits

WAVEGUARD



24 V DC 6.3 A

24 V DC 8 A



E

Technical data

Input	
Rated voltage	24 V DC
Rated current	6.3 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Input	
Rated voltage	24 V DC
Rated current	8 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Input	
Rated voltage	24 V DC
Rated current	8 A
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Dimensions	
Clamping range (rating- / min. / max.)	mm ²
Length x width x height	mm
Note	

Screw connection	Tension clamp connection
2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
92.4 x 22.5 x 72	92.4 x 22.5 x 72
Periodic auto-reset not permitted; Tu=23°C, single module	

Screw connection	Tension clamp connection
2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
92.4 x 22.5 x 72	92.4 x 22.5 x 72
Periodic auto-reset not permitted; Tu=23°C, single module	

Ordering data

Connection system	
	Screw connection
	Tension clamp connection
Note	

Type	Qty.	Order No.
WGS 24Vdc 6.3A	1	8618930000
WGZ 24Vdc 6.3A	1	8621020000

Type	Qty.	Order No.
WGS 24Vdc 8.0A	1	8618940000
WGZ 24VDC 8.0A	1	8621010000

Accessories

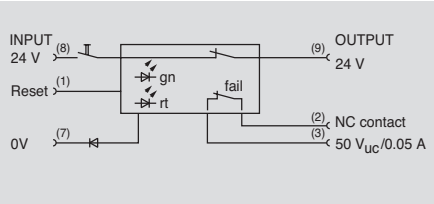
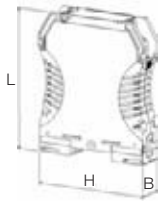
Note

Supply voltage +24V and 0V can be cross-connected with ZQV 2.5N/2

Supply voltage +24V and 0V can be cross-connected with ZQV 2.5N/2

WAVEGUARD

24 V DC 0.5...5 A



Technical data

Input	
Rated voltage	24 V DC
Rated current	0.5...5 A adjustable
Reset	Pulse > 100 ms +24 V, falling edge ON
Output	
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
General data	
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Rated voltage	24 V DC
Rated current	0.5...5 A adjustable
Reset	Pulse > 100 ms +24 V, falling edge ON
Status relay / Change-over contact	NCC, max. 50 V / 0.05 A; for low voltage only!
Signalling delay	3.5 ms typically
Operating temperature	0°C...+55°C (fitted)
Storage temperature	-20 °C...+85 °C
Status indication	LED green: OK, LED red: Tripped
Standards	EN 50178
EMC standards	EN 61000-6-1, 2, 4; EN 55011
Sliding switch	OFF - wait 10 s - ON; on / off
Approvals	CE / cURus

Dimensions	
Clamping range (rating- / min. / max.)	mm²
Length x width x height	mm
Note	

Screw connection	Tension clamp connection
2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
92.4 x 22.5 x 72	92.4 x 22.5 x 72
Note	
Periodic auto-reset not permitted; Tu=23°C, single module	

Ordering data

Connection system	
	Screw connection
	Tension clamp connection

Type	Qty.	Order No.
WGS 24Vdc 0.5...5A	1	8710270000
WZG 24Vdc 0.5...5A	1	8727630000

Note

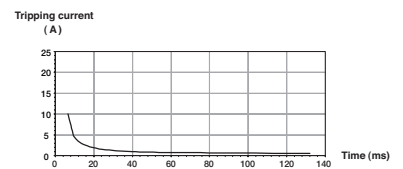
Accessories

Note
Supply voltage +24V and 0V can be cross-connected with ZQV 2.5N/2

Derating curve

Dynamic tripping characteristic

Tripping current: 0.5 A



Tripping current: 5.0 A

