



USER'S MANUAL

# Multipurpose contact output

DC Relay for MasterBus



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# 1 GENERAL INFORMATION

## 1.1 Use of this manual

Copyright © 2008 Mastervolt. All rights reserved.  
 Reproduction, transfer, distribution or storage of part or all of the contents in this document in any form without the prior written permission of Mastervolt is prohibited. This manual serves as a guideline for the safe and effective operation of the Multipurpose Contact Output. Keep this manual at a secure place!

## 1.2 Guarantee specifications

Mastervolt guarantees that this product was built according to the legally applicable standards and stipulations. If you fail to act in accordance with the regulations, instructions and stipulations in this user's manual, damage can occur and/or the product will not fulfil the specifications. This may mean that the guarantee will become null and void.

**IMPORTANT:** Additional warranty agreements, like "Mastervolt system warranty" may contain restrictions which forbid resetting of historical data. The standard guarantee period is two years after date of purchase.

## 1.3 Liability

Mastervolt can accept no liability for:

- consequential damage due to use of the Multipurpose Contact Output;
- possible errors in the manuals and the results thereof;
- Use that is inconsistent with the purpose of the product.



**CAUTION!**  
 Never remove the identification label.

# 2 OPERATION

## 2.1 MasterBus functions

The Multipurpose Contact Output operation is entirely MasterBus based. For information about MasterBus and the MasterBus event structure, see [www.mastervolt.com](http://www.mastervolt.com). The table below shows the relay functions.

Monitoring Function	Description	Factory settings	Range
State	Relay can be switched On (activate) or Stand by	Stand by	Stand by/ Activate
Override	Change the state of the relay	Stand by	Activate/ Stand by
Configuration Function	Description	Factory settings	Range
Language	Set the Multipurpose Contact Output menu language	English	See specifications
Device name	Any name you wish with 12 characters max	DC Relay	12 characters max
1 sec pulse	Option to create a 1 second starting pulse, needed for some generators	Off	Off, On
Min. runtime	Option to use a minimum run time	Off	Off, On
Min. runtime	Set the minimum run time if selected	15 minutes	15 min-45 days
Max. runtime	Option to use a maximum run time	Off	Off, On
Max. runtime	Set the maximum run time if selected	8 hrs	15 min-45 days

## 2.2 CSI for ChargeMaster

The Multipurpose Contact Output can be used as CSI (Charger Status Interface) for the ChargeMaster, switching at charger failure. CSI configuration is done at the ChargeMaster under Configuration/ Events:

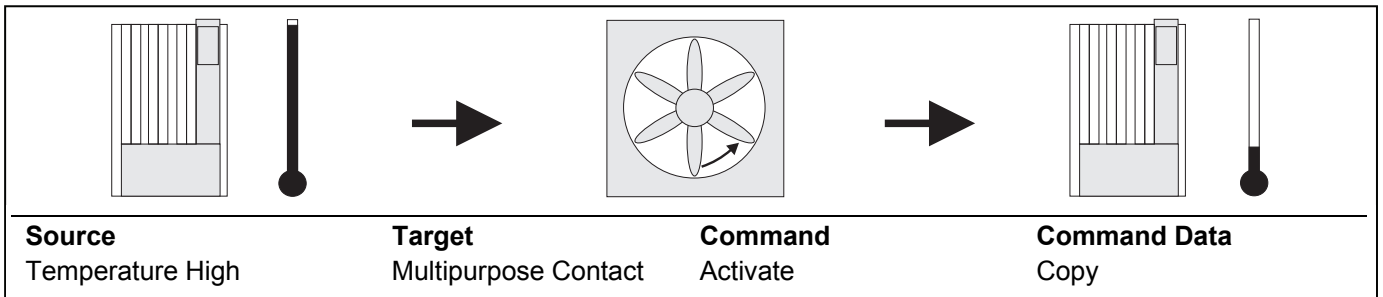
Event source	Event target	Event command	Event action
Failure	DC Relay	Activate	Copy
On	DC Relay	Activate	Inverted copy

## 3 EC DECLARATION OF CONFORMITY

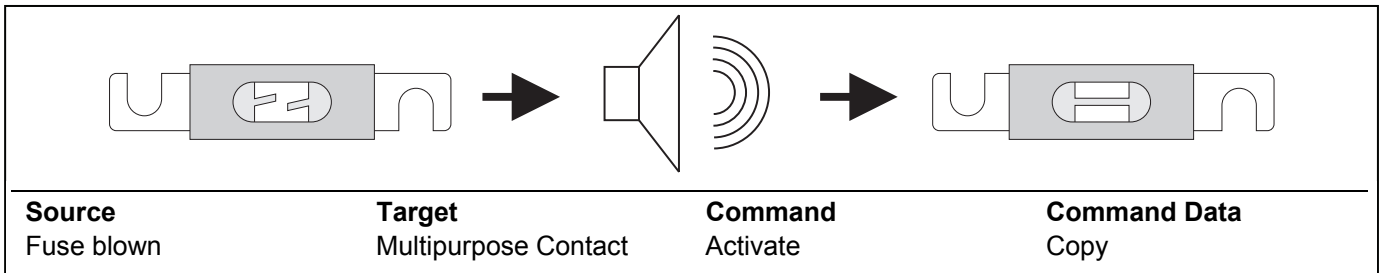
This product is in conformity with the provision of the EC EMC directive 89/336/EEC and amendments 92/31/EEC, 93/68/EEC. Standards applied:  
 Generic emission standard: EN 50081-1:1992, Generic Immunity standard: EN 50082-1:1997,  
 Safety directive 2006/95/EC, with the following standard:  
 Low voltage standard: EN 60950: 2000



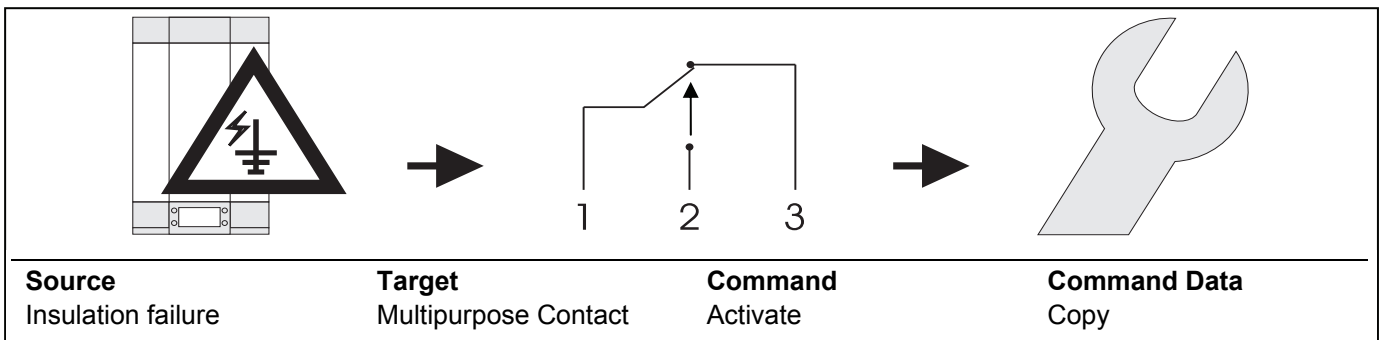
## 4 EXAMPLES



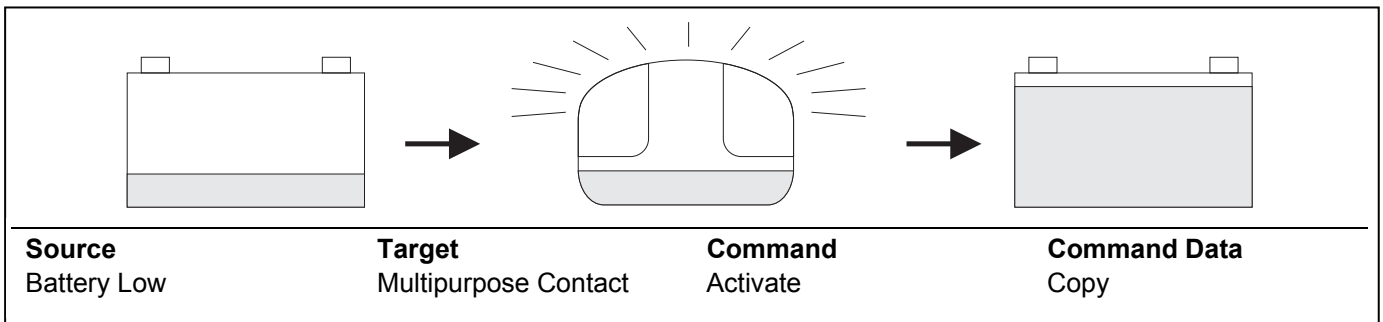
Where to configure: Mass Charger, Multipurpose contact controls: Fan



Where to configure: DC Distribution, Multipurpose contact controls: Buzzer



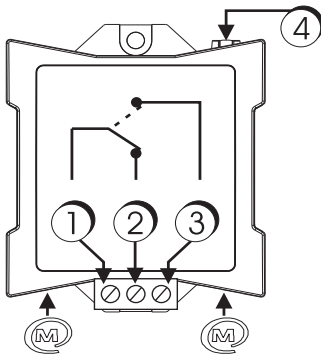
Where to configure: Sunmaster XS, XL range, Multipurpose contact controls: Power supply




Where to configure: MasterShunt, Multipurpose contact controls: Generator

## 5 INSTALLATION

Insert the MasterBus cables, then connect the relay cables to the screw terminal input and outputs, figure below.



1. Input
2. Output normally closed
3. Output normally open
4. Communication LED, illuminating when the state is "activate"

 MasterBus connector

Function:

Stand by: 1 is connected 2,

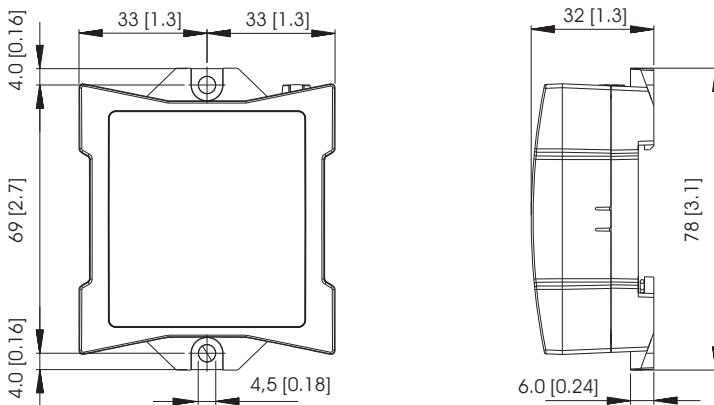
Activate: 1 is connected to 3,

Maximum relay current: 1A.

*Overview and functional scheme of the Multipurpose Contact Output*

## 6 SPECIFICATIONS

Model:	Multipurpose contact output
Article number:	77030500
Delivery also includes:	Screw terminal, MasterBus cable, MasterBus Terminating device, User's manual
Function of instrument:	MasterBus controlled Multipurpose Contact Output
Potential free contact:	1:C, 2: NC – 1A / 30 V DC, 3: NO
Languages available:	English, Nederlands, Deutsch, Français, Castellano, Italiano, Norsk, Svenska, Suomi, Dansk
Power consumption:	144 mW
MasterBus Powering:	No
Din rail mounting:	Yes, Din rail 30 mm [1.2 inch]
Protection degree:	IP 21
Dimensions:	66 x 78 x 32 mm [2.6 x 3.1 x 1.3 inch]; see drawing below
Weight:	Approx. 80 gr [0.18 lb]



*Dimensions in mm [inch]*



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