

Hazard Warnings

Hazard warnings in this manual indicate potential harm to the user or the product. For the person interacting with the product, the level of risk includes consequences ranging from slight, up to lethal injuries. As for the product, disobeying the warnings may cause damage to the equipment and/or void the warranty. Therefore, said warnings are made apparent to instruct and warn the user, which precautions have to be made prior to performing any actions described in this manual. The user must read and be familiar with the manual, before performing any tasks as described in this manual.

Hazard warnings in this manual are presented in these three forms:

WARNING: These warning notices refer to personal safety. Failure to obey these notices could result in personal injury or death.



WARNING

CAUTION: General precautions must be made. Failure to obey these notices could result in personal injury and/or equipment damage.



CAUTION

NOTE: Directs the user's attention to essential information.

Data sheet for the 83106 and 83133 Micro-Switches

1 Underlying principle

The switch is a dual interrupting change-over switch.

WARNING: The two switching circuits of the micro-switch can only be used for switching identical potential!!!



WARNING

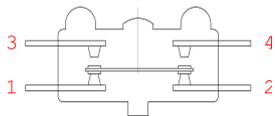


Figure 1: Underlying principle

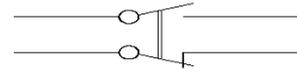


Figure 2: Switch symbol

2 Dimensions:

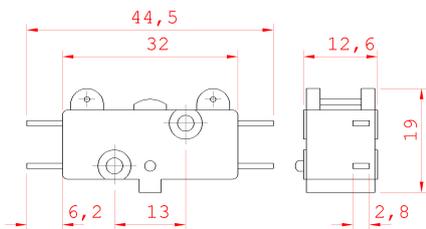


Figure 3: Standard switch (83106)

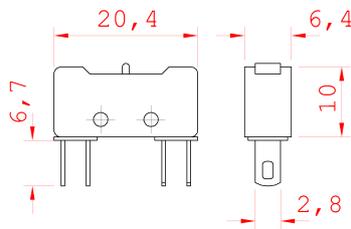


Figure 4: Flashing switch (83133)

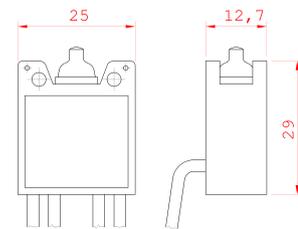


Figure 5: Explosion-proof switch (83133)

3 Load Capacity

Standard switch

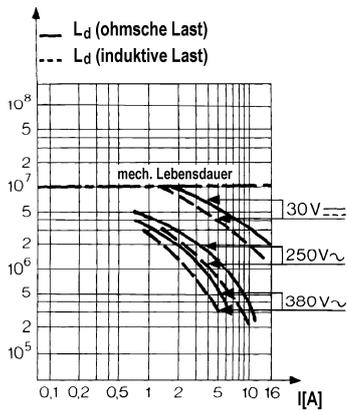


Figure 6: Load capacity diagram (83106)

Flashing switch and Explosion-proof micro-switch:

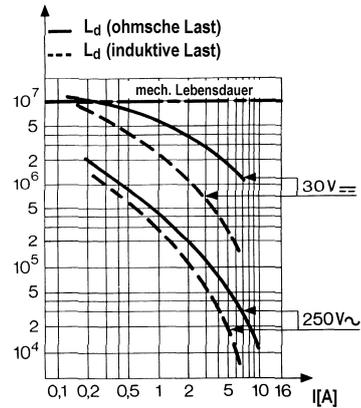


Figure 7: Load capacity diagram (83133)

Mech. service life L_d 10^7 switching cycles
 Permissible ambient temp $-20...+85^\circ\text{C}$
 Special models $-40...+125^\circ\text{C}$

Mech. service life L_d 10^7 switching cycles
 Permissible ambient temp $-20...+125^\circ\text{C}$

For the ohmic load capacity, $\cos\varphi=1$ shall apply. The inductive load capacity given is $\cos\varphi=0,8$ and/or $L/R=5\text{ms}$.

WARNING: The maximum switching current for micro switches with gold-plated contacts is 40 mA a voltage of 24 V (ohmic load). If switching currents are too high, the goldplating will be destroyed.



WARNING