

Diving torch

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Hi, Please forgive me as I am a newbie, i also have limited electronics experience.

I hope anyone will be able to help me??
I have built myself a diving torch, The design is an umbilical system, there are no external switches. To turn the torch on the handle rotates which operates a reed switch which is place internally. This is connected to a relay which turns on the lamp.

I would like to improve this with a self monitoring circuit which will dim the light by 50% when the battery voltage reaches 50% of the operating voltage.(Hope that makes sense??).
I would also like the lamp to flash (approx 5 – 6 times) when the voltage of the battery reaches the minimal voltage allowable(As specified by the manufacture) then it switches off until the batteries are fully charged.
Attached to the circuit I would like to have a push button to determine

the battery status when the case is open, ideally via 3 off leds??
Green – Good
Amber – Medium
Red – Low

Here are the details of the torch:–

Batteries – 2 x 12V 3.2Ahr seal Lead acid
Lamp – Halogen 12V 75W
Reed switch in the umbilical torch

Regards

Simian_196

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