# SmartFlasher 6-28

## Intelligent Flasher

- **Programmable flasher**
- **Integrated solar panel charger**
- **Built-in daylight sensor**
- **Up to 100 W lamp effect**
- **Twin filament, lamp changers or LED's**

The SmartFlasher has set a new standard for electronic flashers in Aids to Navigation having a wide range of functions integrated in one unit:

- Free programmable flash character
- Wide supply voltage range
- Lamp power up to 100 W and programmable output voltage
- Twin filament or lamp changer control
- Two-point solar charger with boost-charge function and temperature compensation
- Daylight sensor
- Synchronization function
- V-meter, A-meter, Ah-meter, hours-counters
- Calendar clock seasonal light control
- Communication port for configuration and/or remote monitoring and control.

The many functions integrated in the SmartFlasher limits the number of components needed to control a light to an absolute minimum. Simultaneously reliability increases and costs decrease.
Sabik's SmartFlasher has already been installed in more than 10,000 lights worldwide.
Despite the wide functionality of the SmartFlasher the power consumption is extremely low making the SmarkFlasher ideal for floating aids to navigation.
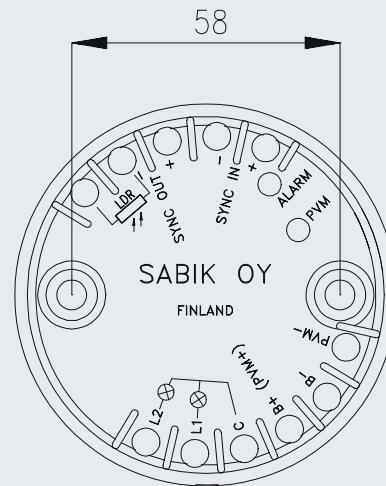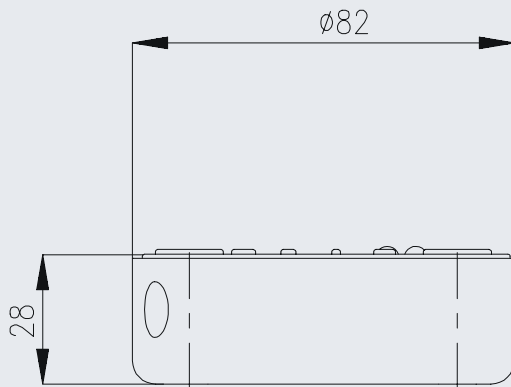
### ■ TECHNICAL SPECIFICATIONS

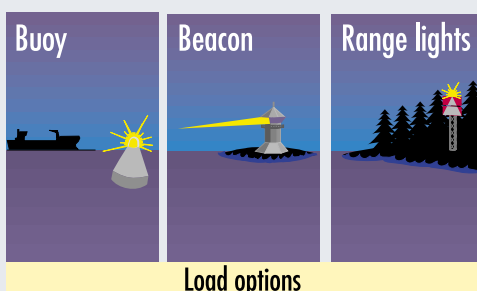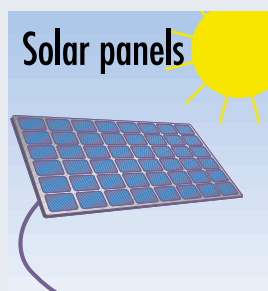| | |
|---|---|
| Input Voltage Range | 6 ... 28 Vdc |
| Output Voltage Range | Programmable between 6 and 28 V (controlled by PWM) |
| Output Loading | Maximum 10 Ampere |
| Load options | Twin filament lamps, lamp changers or LED lanterns |
| Standby Current (daytime) | Less than 1 mA @ 12 Vdc |
| Flash Character | Any desired light character, all IALA and non standard |
| Synchronizing | Automatic configuration Master/Slave. Offset programmable |
| Time Accuracy | ± 0,01% |
| Protection | Protected against reverse polarity and short circuit |
| Configuration | 23 settings can be configured by user |
| Monitoring | Built-in. 12 values can be retreived through serial communicaiton |
| Self Diagnostics | Error LED signal with 7 different error codes |
| Solar Regulator | Built-in programmable regulator, max 8 A |
| Ampere Hour Counter | Built-in. Accuracy ± 5% |
| Photocell | Built-in standard. External can be ordered separately |
| Temperature Sensor | Built-in. Accuracy ± 2°C |
| Firmware | Stored in FLASH memory, upgrade via serial communication |
| Dimensions | 36mm x Ø 82 mm, weight 340 g |
| Temperature Range | -40° to +70°C |
| Ordering Code | 980251 |

**Marine Products**
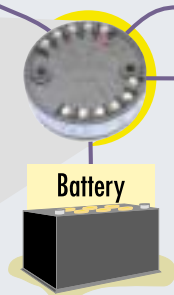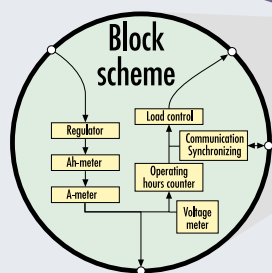
# SmartFlasher 6-28

## Intelligent Flasher

### ■ TECHNICAL DIMENSIONS



Ø82

28

58

SABIK OY

FINLAND

LDR, SYNC OUT +, SYNC OUT -, SYNC IN +, SYNC IN -, ALARM, PVM, PVM~, B- (PVM+), B+ (PVM+), C, L1, L2

### ■ SMARTFLASHER INTEGRATED FUNCTIONS

**Solar panels**

**Buoy**

**Beacon**

**Range lights**

**Load options**

**Block scheme**

Regulator
Load control
Communication Synchronizing
Ah-meter
Operating hours counter
A-meter
Voltage meter

**Battery**

**External Connections**

PROGRAMMER

**Keyprogrammer connection**
(local)

**PC-connection**
(local)

**Radio control**
(remote)

The SmartFlasher is a complete integrated controller for a solar powered light, configured and monitored through serial communication.

The flasher can be interrogated using several communication options:

Remote monitoring:
- FC-UHF radio modems
- FC-GSM cellular modem
- FC-Orbcomm satellite modem

Local monitoring & configuration
- Portable Programmer
- PC-Computer RS232

CE

### ■ MANUFACTURER

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