

# Preliminary Product Datasheet

IR31DIM - Programmable Dimmer switch with NMEA

**SKIPPER**

**Art. No.  
IR31DIM-SA**

**NMEA  
2 chan Dimmer**

**PULSE  
Dimmer**

**Auto  
Light detect**

**DDC or  
proprietary message**

**For all Skipper  
products**



**A Programmable dimmer switch giving NMEA or pulse output to simply control dimming on a number of displays. NMEA multiplexing feature allows the switch to be added in series. Simple connection, EMC tested (CCS).**

SKIPPER Electronics manufacture marine electronics for the merchant fleet as well as the fishing fleet, based on experience, research and tradition. Our products are known worldwide for reliability, sophistication and good value for money.

#### **Main Functions:**

- **Taking up to 2 NMEA lines and multiplexing onto it a DDC or Proprietary message each time a button is pushed**
- **Auto mode with internal or external light sensor the unit can be made to send messages when the correct light conditions are reached (user adjustable)**
- **Up and Down relays also allow older repeaters to be adjusted manually or automatically**

#### **Applications:**

- **Typical usage in a zone of the bridge (overhead or in wing), but also can be used for individual equipment**

# Product Datasheet



## NMEA DIMMER SWITCH

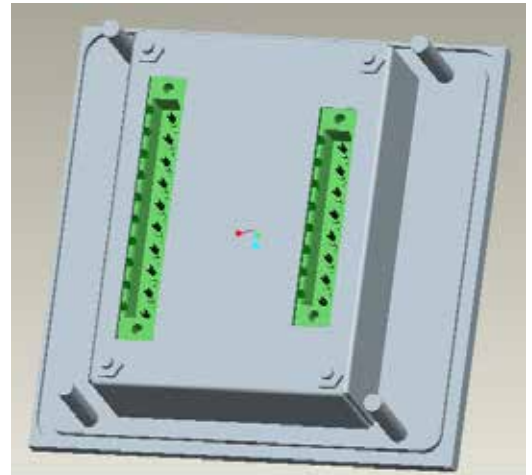
### Specifications

	Part number	Description
Part number	IR31DIM-SA	NMEA Dimming unit
To be used with	All Skipper products, All products accepting NMEA dimming messages	
Input Voltage	24 V DC (18-32V)	
Interface unit IP rating	IP 56 on front (IP22 otherwise)	
Approvals	(EMC, CE)	
Inputs	2 x NMEA0183 (IEC 61162-1), 1 x external Light sensor	
Output	2 x NMEA0183 (IEC 61162-1) 1 x relay (up/down)	
Mounting format	96 mm format (cutout 63 mm x 84 mm) Screw holes, 70 mm x 82 mm, d4 mm	
Weight	280 g	
Optional IR31 Sensor	External light sensor	



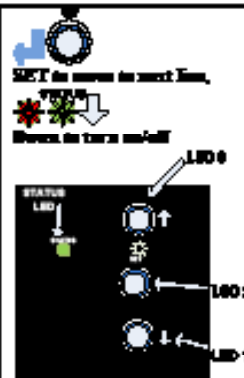
Pin	Function
1	NMEA1 in+ (B)
2	NMEA1 In - (A)
3	NMEA2 in + (B)
4	NMEA2 in - (A)
1	NMEA1 out+ (B)
2	NMEA1 out - (A)
3	NMEA2 out + (B)
4	NMEA2 out - (A)

Pin	Function
1	Power + (18-32V)
2	Power -
3	
4	Ext sens VDD
5	Ext sens SDA
6	Ext sens SCL
7	Ext sens GND
8	Relay NO Up
9	Relay COM
10	Relay NO Dn



Mode	STATUS LED	
Manual	orange (dim)	
Auto (optional Sensor)	green (dim)	
Programming (See table)	Red 1 second flash or green 1 second flash	

Programming			
LEDO	LED1	LED2 'SET'	Function
0	0	0	Auto activate / deactivate
0	0	1	NMEA1 DIM activate (ch1)
0	1	0	NMEA Proprietary1 activate (ch1)
0	1	1	NMEA Proprietary2 activate (ch1)
1	0	0	Push relay activate / deactivate (ch1)
1	0	1	NMEA1 DIM activate (ch2)
1	1	0	NMEA Proprietary1 activate (ch2)
1	1	1	NMEA Proprietary2 activate (ch2)



SKIPPER Electronics AS  
 Enebakveien 150  
 P. O. Box 151, Manglerud  
 0612 Oslo, Norway  
 E-mail: support@skipper.no  
 Tlf: +47 23 30 22 70  
 Fax: +47 23 30 22 71  
 Co. reg. no: NO-965378847 - MVA  
[www.skipper.no](http://www.skipper.no)  
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