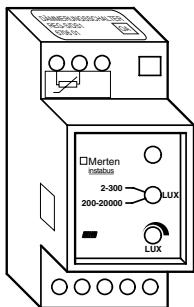


**Light-sensitive switch REG-S/DS1**

**Colour**      **Article no.**  
light grey      670601

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**1. Function**

The INSTABUS light-sensitive switch REG-S/1DS enables the brightness-dependent control of blinds, lamps and other loads, either individually or in groups. It measures the brightness level in connection with a light sensor which is installed externally. If the brightness falls below the set level, a built-in LED lights up and the device sends a parameterised telegram via the associated bus coupler REG after an adjustable delay. If the set brightness level is exceeded, the LED is extinguished and the device sends a telegram which has been defined via another parameter with a delay. The light-sensitive switch has two ranges, within which the required brightness value can be set using a potentiometer.

**2. Installation**

The INSTABUS light-sensitive switch REG-S/1DS is a DIN rail mounted device with an application interface which is looped through from the side. It is mounted on a DIN rail EN 50022-35x7.5 and clipped onto a bus coupler REG or an existing sensor device REG-S from the left-hand side. A maximum of four sensor channels can be connected to a bus coupler REG. The bus coupler REG (art. no. 690599) is not included with supply. The light sensor is included and is fixed to the installation site with the conventional fixing clip (Pg 13.5) supplied. The light sensor is connected to the evaluation device via a two-core cable.

A red LED indicates that the value has fallen below the threshold value. The evaluation range (2-300 lux or 200-20,000 lux) can be preselected with a rotary switch. The switching threshold is set via a potentiometer.

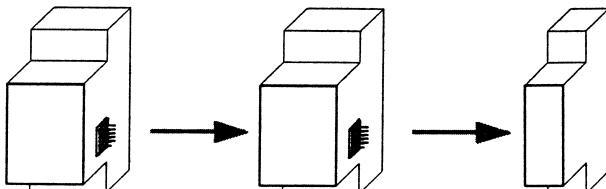
**3. Technical Data**

## Light-sensitive switches

Adjustment ranges:	2-300 lux and 200-20,000 lux
Hysteresis:	setting value of approx. 1.3
Switching delay:	can be set via parameters
Connections	
Bus coupler:	10-pole plug connector
Verbindung zu anderen REG-S-Geräten:	10-pole socket connector
Brightness sensor:	2 screw terminals
EC guidelines:	corresponds to low voltage guideline 73/23/EEC; corresponds to EMC guideline 89/336/EEC
Dimensions:	82.5x36x59 mm (LxWxH)
Device width:	2 modules = 36 mm

## Light sensor

Ambient temperature	
Operation:	-30 °C to +70 °C
Protection class:	II
Type of protection:	IP 65
Max. connected length:	100 m, e.g. bus cable or NYM

**Connection example:**

e.g. light-sensitive switch REG-S/ DS1  
e.g. time switch REG-S/1/16  
(channel 1)  
(channel 2) Bus coupler REG

**4. Settings in the EIB Tool Software (ETS)**

The bus coupler REG is required for programming the device. The applications which are necessary for the operation of the light-sensitive switch can be selected there:

**Selection in the product database**

Manufacturer:	Merten
Product family:	1.1 System devices
Product type:	1.1.04 Bus coupler
Program name:	Bin. Standard 1274
Media type:	Twisted Pair
Product name:	Bus coupler REG
Order number:	690599

**5. Application overview**

See bus coupler REG (art. no. 690599). The following application is available for the light-sensitive switch:

Application	Vers.	Function
Bin. Standard 1274	3	Functionality of a binary input: Devices with a lateral connection can be connected. Article no. (670101, 670201, 670401 670601)
		Setting the switching characteristics (edge => telegram value)
		Setting the time delay
		Logic operation of channel 1+2 or 3+4