# S-DIAS Safety CPU Module
# SCP 111


with 1 Safety Interface
1 USB Device
1 microSD Slot

The S-DIAS 011 Safety CPU module supports up to 16 Safe IO modules. In addition, the SCP 111 can operate handheld devices with Emergency Stop and/or confirmation buttons. The Safety CPU component has the safety integrity level SIL3 or SIL CL 3 (EN / IEC 62061) or Performancelevel e (PL e) (EN ISO 13849-1/-2).

The safety-related SCP 111 is ideal for use in systems with optional modules and interface variables. The SCP 111 module alone is already a minimal system of a safety control.

## Performance Data

| | |
|---|---|
| Interfaces | 1x Safety Interface |
| Program interfaces | 1x USB device |
| Bus connection possible | yes |
| Miscellaneous | microSD slot |
| Supply voltage | +24 V |

## Electrical Requirements

**Module Supply (Input)**

| | | | | | |
|---|---|---|---|---|---|
| Supply voltage | +18-30 V DC, typically +24 V DC<br>UL: Class 2 or LVLC | | | | |
| Current, internal consumption | typically 90 mA internal consumption | | | | |
| Current consumption | maximum 1.4 A | | | | |
| Current consumption from the S-DIAS bus | | +5 V | | +24 V | |
| | with missing +24 V connection (X3) | typically 170 mA | maximum 200 mA | 0 A | 0 A |
| | with existing +24 V connection (X3) | 0 A | 0 A | 0 A | 0 A |

**S-DIAS Bus/Safety Supply (Output)**

| | | | | |
|---|---|---|---|---|
| Voltage supply | in the S-DIAS bus | +5 V | | +24 V |
| | | 0 A | | 0 A |
| | in the S-DIAS Safety bus (supply of the I/O modules) | +12 V | | +24 V |
| | | max. 0.8 A | | max. 0.8 A |

## Article Number and Miscellaneous

| | |
|---|---|
| Article number | 20-890-111 |
| Dimensions | 12.5 x 104.2 x 72 mm (W x H x D) |
| Standard | UL 508 (E247993) |
| Approvals | UL, cUL, CE |

## Environmental Conditions

| | | |
|---|---|---|
| Storage temperature | -20 ... +85 °C | |
| Environmental temperature | 0 ... +60 °C | |
| Humidity | 0-95 %, non-condensing | |
| Installation altitude above sea level | 0-2000 m without derating<br>> 2000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m | |
| Operating conditions | pollution degree 2 | |
| EMC resistance | in accordance with 61000-6-7:2015 (Generic standards - Immunity requirements for equipment intended to perform functions in safety-related systems (functional safety) at industrial locations)<br>in accordance with EN 61000-6-2:2007 (industrial area)<br>(increased requirements in accordance with IEC 62061) | |
| EMC noise generation | in accordance with EN 61000-6-4:2007 (industrial area) | |
| Vibration resistance | EN 60068-2-6 | 3.5 mm from 5-8.4 Hz<br>1 g from 8.4-150 Hz |
| Shock resistance | EN 60068-2-27 | 15 g |
| Protection type | EN 60529 | IP20 |