

AP7031

AEOS Blue I/O interface

August 2023
Specification Sheet



The AP7031 is an attractive peripheral for the AP7803. The competitively priced I/O interface has been designed to provide an answer to the most varied integration needs. The AP7031 is thus suited to many different applications.

- Attractive peripheral for the AP7803
- Designed for many different integrations
- Provides 12 secured inputs and 6 outputs

Answer to different integration needs

The AP7031 provides 12 inputs and 6 outputs that can be freely defined. This means that the interface is highly suited to many different applications. Examples include monitoring contacts and controlling lifts. In addition, the I/O interface has a data interface for serial communication via RS232 or RS485 with third party solutions, such as anti-burglary systems.

Monitoring and operating doors

The AP7031 provides a cost-effective solution to monitoring and operating doors without readers, such as emergency doors. For example, it is possible to control up to 6 doors remotely and to monitor up to 12 doors.

Secure against short circuit and sabotage

The signals from the 12 inputs are constantly checked. If unexpected changes occur, such as attempts at sabotage or short circuits, an alarm sounds immediately. In addition, the supply voltages on the AP7031 are monitored constantly.

Technical specifications

Dimensions	AP7031: 230 x 165 x 65 mm (HxWxD) AP7031m: 122 x 120 x 35 mm (HxWxD)
Weight	AP7031: ~0,7 kg AP7031m: ~0,2 kg
Housing	PC ABS
Temperature range	AP7031: operation: 0° C to 45° C, storage: -30° C to 65° C AP7031m: operation: 0° C to 55° C, storage: -30° C to 65° C
Relative humidity	10% to 93% (non-condensing)
485bus connection	RS485 based (non-isolated), jumper selectable end of line, support for up to 32 units
External power supply	12-27 VDC (min. 100 mA, max. 1.7 A @ 12-27 VDC) Inputs: 600 mA @ Vin (shared by all inputs) Outputs: 600 mA @ Vin (shared by all outputs) Serial channel: 250mA @ Vin
Inputs	12 secured inputs (intended for dry contact or open collector) 2 digital inputs (AC OK, battery low)
Outputs	4 relays, dry contacts (NC, COM, NO), max. 30 VDC, max. 2 A 2 relays, dry contacts (COM, NO), max. 30 VDC, max. 2 A
Serial channel	RS485 or RS232 (RS232 can be activated by configuration)
Tamper detection	1 optical tamper sensor (AP7031) 1 digital input (for connecting external tamper switch)
Status LEDs	1 status LED, 1 power LED, 2 serial channel status LEDs
485bus wiring	1 x 2 x 0.22 mm ² shielded (100-120 Ω), max. 1200 m
External power supply wiring	2 x 0.5 mm ² shielded, max. 5 m
Serial channel wiring	RS485 excl. power: 1 x 2 x 0.22 mm ² shielded, max. 1000 m (depending on peripheral) RS485 incl. power: 2 x 2 x 0.22 mm ² shielded, max. 150 m (depending on peripheral) RS232: 2 x 2 x 0.22 mm ² shielded, max. 15 m

Article number

AP7031	9984143
AP7031m	9984135

Subject to change without prior notification