

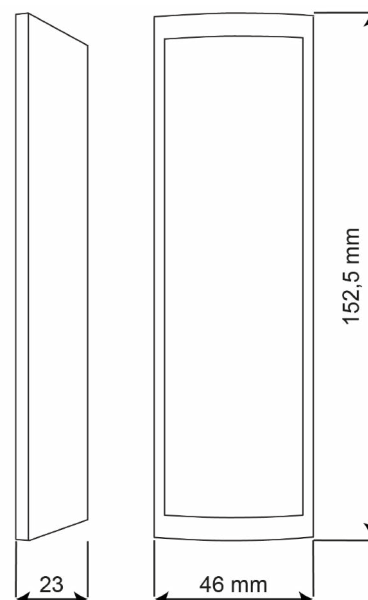
MCT12E

Proximity reader

roger
ASSA ABLOY

Data sheet

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The MCT12E series reader is an outdoor identification terminal designed for use in the RACS 5 access control system. It enables user identification by means of EM 125 kHz proximity cards. Communication with the controller is carried out via a modified RS485 standard that allows star- and tree-type wiring structures. The cable connection between the reader and the access controller can be up to 1200 m long and can be made using any signal cable. The reader can be installed outdoors without the need for any additional protection measures.

Features

- support for EM 125 kHz proximity cards
- RS485 interface with EPSO 3 protocol (RACS 5 system)
- 3 LED indicators
- silicone rubber keypad
- 2 function keys
- 3 parametric inputs (*IO option*)
- 2 transistor outputs (*IO option*)
- 1 relay output (*IO option*)
- outdoor operation
- tamper protection
- DOMINO product line
- firmware updates available
- 12 VDC power supply
- dimensions: 152.5 × 46 × 23 mm (H×W×D)

Versions	
Item	Description
MCT12E	Access terminal with keypad; EM 125 kHz; communication interface RS485 EPSO 3 (RACS 5); 12 VDC supply; DOMINO series design; outdoor operation
MCT12E-IO	Access terminal with keypad; EM 125 kHz; communication interface RS485 EPSO 3 (RACS 5); 12 VDC supply; DOMINO series design; outdoor operation; on-board I/Os
MCT12E-BK	Access terminal; EM 125 kHz; communication interface RS485 EPSO 3 (RACS 5); 12 VDC supply; DOMINO series design; outdoor operation
MCT12E-BK-IO	Access terminal; EM 125 kHz; communication interface RS485 EPSO 3 (RACS 5); 12 VDC supply; DOMINO series design; outdoor operation; on-board I/Os

Technical data	
Parameter	Description
Nominal supply voltage	12 VDC
Nominal current consumption	MCT12E/MCT12E-IO: ~50 mA; MCT12E-BK/MCT12E-BK-IO: ~40 mA
Inputs	3 inputs (IN1..IN3) electrically connected internally to +12 V through a 5.6 kΩ resistor. NO and NC lines approx. 3.5 V triggering level.
Relay output	Relay output (REL1) with single NO/NC contact; 30 V/1.5 A DC/AC max. load
Transistor outputs	2 (IO1, IO2) open collector outputs; 15 VDC/1 A max. load
Tamper protection	Isolated 50 mA/24 V contacts; shorted when enclosure is closed
Identification methods	EM 125 kHz UNIQUE according to EM4100/4102
Reading range	Up to 7 cm
RS485 distances	Up to 1200 m between controller and terminal
IK	IK07
IP	IP65
Operating environment	Outdoor general conditions; relative humidity: 10 to 75% (no condensation); temperature: -25°C to +60°C
Dimensions (H×W×D)	152.5 × 46 ×23 mm
Weight	~150 g
Compliance	CE, RoHS
Manufacturer's warranty	36 months

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global leader in access solutions.
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