

# SIEMENS

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## AR Mullion readers

AR20M-MF and AR50M-MF

[siemens.com/security](https://www.siemens.com/security)

The AR Mullion readers have a modern stylish design and hardwearing materials which endure the most challenging weather conditions and protection against vandalism.

The reader supports the latest secure MIFARE© technologies, and industry standard OSDP secure protocol for supervised encrypted bidirectional communication. The multicolour programmable light frame on the readers enhance the look and functionality of the reader.

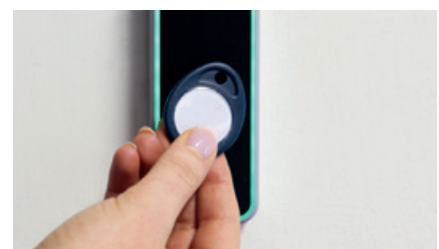
### Overview

Modern attractive looking and hardwearing materials which endure the most challenging weather conditions. Multicolour programmable light frame on all readers which enhance the look and functionality of the reader. The customer can choose colours for each outcome and rest state.

### Functionalities

Executively designed card readers for modern security. Hardwearing materials which endure extreme weather conditions and a host of domestic detergents. Multicolour light frame on all readers. The readers automatically dim in reduced lighting to save power and reduce glare.

The readers support OSDP secure protocol, eliminating exposure to vulnerabilities existing in the wiegand communication. The latest MIFARE EV1 and EV2 cards are supported with many people now choosing EV2 because of better read range.



### Highlights

- Multicolour LED light frame
- Auto dim in reduced light
- OSDP or Wiegand connectivity
- MIFARE card technology including EV1 and EV2
- Hardwearing materials
- IK class 08 and  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  temperature
- Easy to mount and connect
- Card, card and pin, and pin only functionality

# Product/technical specification

	AR20M-MF card reader	AR50M-MF card reader with keypad
Protocol	OSDP / Wiegand	OSDP / Wiegand
Interface to controller	RS485 / Wiegand	RS485 / Wiegand
Operating voltage	8.5 – 30.0 VDC	8.5 – 30.0 VDC
Power consumption	DC 12 V 50 mA Peak 150 mA DC 24 V 35 mA Peak 100 mA	DC 12 V 50 mA Peak 150 mA DC 24 V 30 mA Peak 100 mA
Tamper protection	Yes	Yes
Card technology	MIFARE	MIFARE
Card compatibility	MIFARE Classic MIFARE Plus (UID only) MIFARE DESfire EV1, EV2	MIFARE Classic MIFARE Plus (UID only) MIFARE DESfire EV1, EV2
Indicators	3 x LED (red/yellow/green) 1 x Buzzer Multicolour light frame	3 x LED (red/yellow/green) 1 x Buzzer Multicolour light frame
Keypad	No	Yes
Display	No	No
IK class	08	08
Housing	Zinc casted metal bezel with polycarbonate plastic front	
Colour	Black, matt chrome	Black, matt chrome
Dimensions (W x H x D)	48x129x22	48x129x24
Approvals	CE according to R&TTE and EMC Directives, RED	
Temperature	–40°C to +70°C	
IP class	IP65	

## Ordering information

Type	Part no	Description	Weight*
AR20M-MF	S54504-F111-A100	MIFARE mullion card reader	280 g
AR50M-MF	S54504-F112-A100	MIFARE mullion card reader with keypad	300 g
3CT-KIT	S54504-S101-A100	3CT configuration card creation kit	315 g

\*Total weight of the product inclusive of the weight of its accessories and packaging.

Programming the reader is easily achieved using our special purpose 3CT kit. With this kit you can choose colours and assign them different functions. Setting encryption keys is also done through this kit. It creates configuration cards which can be used to update the readers. MIFARE, MIFARE DESFire are registered trademarks of NXP B.V. and are used under license.

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International Headquarters  
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Switzerland  
Tel. +41 58 724 24 24

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