



ARD-R90 - iCLASS Reader - APR/EMEA



- ▶ **Contact less smart card reader, read only, long range**
- ▶ **Proximity/long range reader with beeper and multicolored LED display**
- ▶ **Rugged, weatherized polycarbonate enclosure, designed to withstand harsh environments**

Non-contact access control readers in 13.56 MHz technology (based on ISO 15693) for connecting to an access controller with Wiegand interfaces.

Functions

Reads all iCLASS and ISO 15693 (CSN) compatible cards. “Parking Hold” feature allows connection to a loop detector to ensure accurate detection of vehicles in parking lanes.

Two ARD R90 units can operate one meter apart for “HI-LO” truck and car installations. iCLASS proximity cards that work with diversified keys of 64-bit length for two-way authentication, encrypted data is transmitted between the reader and card.

Beeper and multicolored LED display controlled internally or by host.

Installation/Configuration Notes

- Cable length 150 m (500 ft).
- Power supply installation always closed to the reader.

- Please follow the general mounting instructions for the proximity reader regarding the distance between readers and metallic surfaces.

Note The Wiegand reader interface of the AMC2 4W does not provide sufficient power for the ARD R90. Please plan an external power supply for the ARD R90.

Parts Included

- 1 Reader body with board
- 1 Mounting material
- 1 Installation guide

Technical Specifications

Housing

External dimensions (W x H x D)	30,48 x 30,48 x 3,175 cm (12 x 12 x 1.25 inch)
Material	Polycarbonate (UL 94)
Color	Black
Weight	1860 g (60 oz)

Connections

Display	Multicolored LED
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Housing

Interfaces	Wiegand
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Environment conditions

Operating temperature	-35° to 65°C (-31° to 150°F)
Humidity	5 to 95% no condensation water
Environment class	IP55

Electrical parameters

Power supply	12 – 24 VDC reserve voltage protected (linear supply recommended)
Current consumption (Avg/Peak)	480/1800 mA (12 VDC) 230/900 mA (24 VDC)
Reading process	iCLASS
Operating/modulation frequency	13.56 MHz
Reading distance	45 cm (17.72 in) with iCLASS card 22,9 cm (9.01 in) with iCLASS key/tag
Cable distance	150 m (500 ft)
Recommended cable	ALPHA 1295 (22 AWG)

Ordering Information

ARD-R90 - iCLASS Reader - APR/EMEA **ARD-R90-AKT00**
Proximity long range access control reader
with Wiegand interface.

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