

AYK-12C

Proximity Readers Series – 125 kHz

AY-M12C
AY-H12C
AY-L12C
AY-K12C
AY-Q12C



AY-M12C

AY-H12C

AY-L12C

AY-K12C

AY-Q12C

AYK-12C is a series of powerful RFID proximity card readers of EM 4102 125-kHz cards and tags. The readers are highly flexible with behavior control options. With a sleek design and a tough UV-resistant and water-resistant casing, the AY-x12C are equally suited for indoor and outdoor use.

GENERAL DESCRIPTION

The AY-x12C with selectable output formats (Clock & Data or Wiegand 26-Bit) reduce stocking costs, while offering various control options such as hold, buzzer and multi-LED color control.

The units are designed for easy mounting with hidden screws (security screws may be used to enhance strength). Optical tamper adds protection against wall removal, and the buzzer adds audible RFID card read notification. LED control provides system based information to the end user.

MAIN FEATURES

- Selectable output formats: Wiegand 26-Bit, RS-232, or Clock & Data
- Excellent RFID card read range: 8 cm (3.2 in.) to 10 cm (3.9 in.)
- Wide range operating voltage: 5 to 16 VDC
- 45 cm (18 in.) pigtail cable

PROFESSIONAL GRADE FEATURES

- RF Modulation: ASK at 125 kHz
- Internal sounder with external control option
- Tri-color LED with external control inputs
- External reader hold control
- Optical wall tamper detection
- Water-resistant with epoxy potting (IP65), suitable for indoor and outdoor applications
- Made of tough polycarbonate UV-resistant plastic
- Comes with mounting template for easier installation

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

■ Operating Voltage Range	5–16 VDC, from a regulated power supply
■ Standby Input Current	60 mA @ 12 V
■ Maximum Input Current	120 mA @ 12 V
■ Proximity Card Reader	Maximum read range*: 8 cm (3.2 in.) to 10 cm (3.9 in.) Modulation: ASK at 125 kHz Compatible cards: 26-Bit EM cards * Measured using a proximity card or equivalent. Range also depends on electrical environment and proximity to metal.
■ Tamper Output	Open collector, active low, max. sink current 16 mA
■ LED Control Input	Dry Contact, N.O.

OPERATIONAL SPECIFICATIONS

■ Output Format	Wiegand 26-Bit, RS-232, or Clock & Data
■ Audio/Visual	Tri-colored LED indicator, built-in sounder
■ Design	Epoxy-potted, fully-sealed in a rugged polycarbonate enclosure. Suitable for harsh environments.

ENVIRONMENTAL SPECIFICATIONS

■ Operating Environment	Water resistant, suitable for outdoor use (IP65)
■ Operating Temperature	-31°C to 63°C (-25°F to 145°F)
■ Operating Humidity	0% to 95% (non-condensing)

PHYSICAL SPECIFICATIONS	AY-M12C	AY-H12C	AY-L12C	AY-K12C	AY-Q12C
■ Dimensions (H x W x D)	89 x 89 x 15 mm (3.5 x 3.5 x 0.6 in.)	110 x 75 x 15 mm (4.3 x 3.0 x 0.6 in.)	145 x 43 x 20 mm (5.7 x 1.7 x 0.8 in.)	80 x 40 x 12.8 mm (3.2 x 1.6 x 0.5 in.)	120 x 76 x 20 mm (4.7 x 3.0 x 0.8 in.)
■ Weight	109 g (3.9 oz)	100 g (3.5 oz)	116 g (4.1 oz)	70.5 g (2.5 oz)	480 g (17.0 oz)

SYSTEM COMPONENTS

The AY-x12C series is compatible with a variety of controllers, as well as with many third-party access control systems.
A mounting spacer is available for installations over metallic surface for selected models.

PRODUCT WARRANTY

5-Year Limited Product Warranty

