

PRX-60/A

Long-rang RFID proximity card reader

The PRX-60/A is a waterproof proximity reader, with a reading range of minimum 30 cm and up to 45 cm.

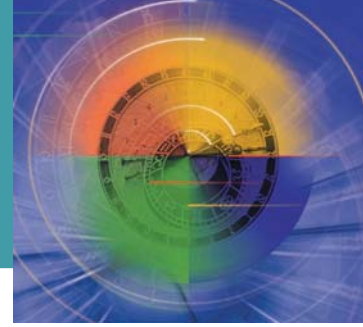
This cost-effective solution is suitable for indoor and outdoor use.



- Extended reading range of up to 45 cm with ISO-size cards
- High-precision auto tuning compensates for environmental changes
- Magstripe interface for ID code output (+ RS-232 for firmware upgrades)
- Three selectable data output formats: "Weigand 26", "Linear", and "Synel"
- Firmware Download Mode allows for firmware upgrades in the field
- Six function LEDs, one of them externally controlled
- Wide input power range (6.5V-15V, 12V nominal)
- Compact and stylish design
- Electronic circuit completely sealed (potted)



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Features

The PRX-60/A is a powerful extended range proximity reader featuring small dimensions and a reading range of up to 45 cm (in optimal conditions).

The unit will run from any voltage from 6.5 to 13.5 Vdc, making it particularly suitable for access control, car parking and through-wall reading applications.

The PRX-60/A is available in most of the common interface formats, including Weigand, Mag-stripe, RS-232 (for programming only).

Installation

For best reading results the PRX-60/A should be installed on a metal-free surfaces and away from large metal objects. Despite high-precision auto-tuning circuitry the presence of metal objects decreases the reading range of the PRX-60/A. Presence of metal and the degree to which it affects the operation of the PRX-60/A can be verified by checking the results of auto-tuning.

Auto-tuning

The PRX-60/A is equipped with an advanced 8-bit auto-tuning circuitry that compensates for the presence of metal objects in the vicinity of the PRX-60/A and for other environmental factors that can affect the tuning of the PRX-60/A's internal antenna and decrease the reading distance. Although it is best to install the PRX-60/A away from metal objects and on a metal-free surface this is not always possible. Auto-tuning recovers significant portion of the reading distance that otherwise would have been lost due to the presence of metal.

The auto-tuning is performed once each time the PRX-60/A is powered up. Moving the PRX-60/A after the auto-tuning voids the tuning results. Always switch the PRX-60/A off and on to repeat the auto-tuning after relocating the PRX-60/A or changing the environment around it.

The PRX-60/A displays the results of auto-tuning (and expected reading performance) by blinking its Tuning LED and beeping a certain number of times.

Specifications

• Power Requirements	12V, ~0.25A, linear power regulator recommended!
• Interfaces	Magstripe, RS-232 (firmware download only)
• Available data output formats for Magstripe I/F	"Synel", "Linear"
• Maximum reading range (with ISO-size card in a noise-free environment, when installed on a metal-free surface and powered by a linear low-noise power supply)	~60cm
• RFID (proximity) cards accepted	125KHz, 64 bits, Manchester encoding
• Dimensions	210x210x28mm
• Nominal weight	~900g
• Interface cable length	~90cm
• Operating temperature range	-10 ~ +60 Co



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The technical data sheet packed with the product is the only obligatory source of technical information.

