

PARTS INCLUDED

- 1 – Mv-2 Reader
- 1 – Fixing Pack
- 1 – Cover Plate
- 1 – Drill Template
- 1 - Spacer kit (optional extra)



The *Morley Mv-2 Reader* is HID Prox (125Khz) compatible and may be used in conjunction with all HID Prox readers, cards and tokens.

SPECIFICATION

Part Number:	105069 <i>Mv-2 Versatile Proximity Reader</i>
Typical read range:	Card up to 5.5 cm, Key fob up to 2 cm
Material:	316 Stainless Steel, fully potted electronics
Power supply:	12 Volts DC
Maximum current:	120mA
Operating temperature:	-30 to 65 C
Operating humidity:	0-95% Relative humidity
Certifications:	CE
Cable Lead:	3m Flying lead, 8 core with overall screen
Cable distance:	125M

INSTALLATION

Under no circumstances should the reader be mounted directly upon metallic surfaces, Morley Electronics recommends the use of a plastic spacer of 12mm (minimum) depth to raise the reader off the metallic surface, a spacer kit can be purchased from Morley Electronics – part no. 109018. Note that mounting of the reader close to any metallic surfaces or structures may impair read range.

The reader should be located in a position allowing reasonable access for users in terms of height and distance from the door. Installations must comply with the Disability Discrimination Act.

Direct Mounting

Using the drilling template, mark the two screw fixing points in the required position of the reader. Also, mark the point for the 6mm cable entry.

Drill the two fixing points using a No.6 masonry drill, to a depth of 32mm and insert the rawlplugs provided. Drill a hole through the wall using an 8mm drill for cable entry. .

Feed through the reader cable from the reader location into the secure area and fix the reader in place using the security screws supplied. These require a special Snake Eye Bit which is available from Morley Electronics Ltd.

Mounting using Spacer Kit

Use the spacer as a template to drill the two spacer mounting (3mm in corners) and cable entry (8mm in centre of square cut-out) holes. Mount spacer upon metalwork using screws provided.

Feed through the reader cable from the reader location into the secure area and fix the reader to the spacer using the security screws supplied. These require a special Snake Eye Bit which is available from Morley Electronics Ltd.

Route the reader cable to the host access controller. Check the installation meets all relevant electrical codes.

Front Cover Plate Installation

The **Mv-2** is supplied with a stainless steel cover plate which hides from view the mounting screws. The front of the plate is covered by a black protective plastic layer that can be easily peeled off after installation; the rear of the plate is supplied with double sided adhesive tape. You should first ensure that the surface that the cover plate is to be fixed to is clean, dry and free from any grease or dirt etc. Remove the backing from the rear of the cover plate and carefully place on the reader applying firm pressure over the entire surface of the plate.

CONNECTING THE READER TO THE HOST CONTROLLER

Connection of the reader to the host controller should be in accordance with the wiring table below and also with the host controller operating requirements.

Wire Colour	Function
Red	DC+ (12Volts)
Black	Ground
Yellow	Buzzer
Orange	Green LED
Green	Data 0
White	Data 1

Recommended Cable is BELDEN 9538 (22AWG) 8-core c/w drain wire & overall screen or equivalent.

TESTING AND OPERATION

When power is applied to the reader the LED's will flash Green three times with the beeper beeping simultaneously. The LED's will then turn Red. This indicates the micro controller is functioning correctly.

Present an ID card to the reader. The LED will momentarily turn Green whilst the beeper beeps once, indicating that the card has been successfully read.