



ES ESPAÑOL

EN ENGLISH



MOONARW



MOONARB

MOONARW MOONARB

Lector de proximidad 125 kHz empotrable
Flush-mount 125 kHz proximity reader

La elección del instalador
cdvigroup.com

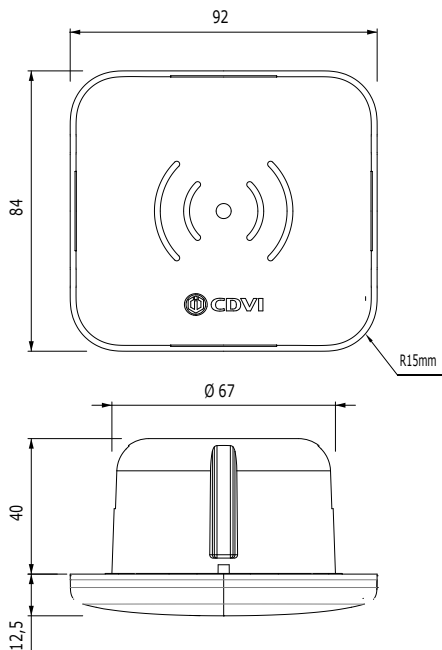
MOONARW - MOONARB*Lector de proximidad 125 kHz empotrable*

Gracias por la confianza que ha depositado en CDVI con la adquisición de este producto.

1] PRESENTACIÓN DE PRODUCTO

- Wiegand 26, 30 o 44 bits.
- Lector empotrable (caja de mecanismos incluida).
- Conexión directa a control de accesos o a través de controlador de puerta (INTBUSW).
- Señalización luminosa y sonora.
- Carcasas blanca y negra intercambiables.

- Dimensiones (A x A x P): 92 x 84 x 12,5 mm.
- Tecnología: 125 kHz.
- Protocolo: Multi-tarjeta.
- Alimentación: 12 Vcc.
- Consumo: 80 mA.



RoHS

WEEE

IP52

Certificado CE

-25°C a +70°C

Fuentes de alimentación

ARD12

BS60

2] NOTAS Y RECOMENDACIONES**Recomendaciones de instalación**

Para asegurar el sistema, no se olvide de instalar un varistor en paralelo a cada uno de los dispositivos de cierre.

Cable recomendado

Cable de 4 pares trenzados 6/10° (AWG 24).

Fuentes de alimentación

ADC335, ARD12 y BS60, siempre que el lector no esté alimentado por el control de accesos o por el controlador de puerta INTBUSW.

Entorno

Si los lectores están en un entorno salino o cercano al mar, se recomienda barnizar los bornes para prevenir la oxidación.

Este producto se suministra con un varistor

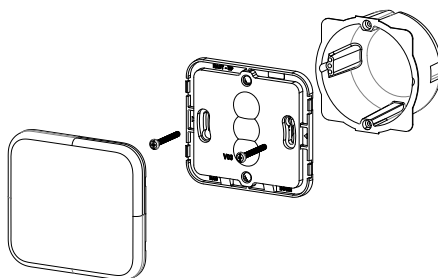
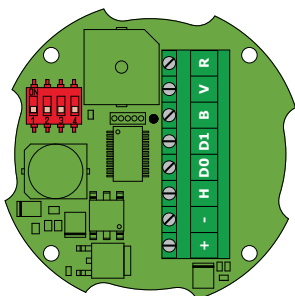
Un varistor regula las sobretensiones causadas por la bobina de una cerradura en su activación o desactivación; debe conectarse directamente a los bornes de la cerradura o ventosa gestionada por el equipo. Si el control de accesos gestiona varias cerraduras, cada una de ellas debe tener su propio varistor. En caso de usar una ventosa de cizalla u otro tipo de cierre, se recomienda usar una fuente de alimentación exclusiva para el cerradero.

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Lector de proximidad 125 kHz empotrable

3] ELEMENTOS INCLUIDOS

				
	Carcasa delantera	Parte electrónica	Caja de mecanismos con tornillos	Varistor
MOONAR	1	1	1	1

4] MONTAJE**5] CABLEADO****DIPSWITCH 1 Y 2**

	ON	1	2
	OFF	OFF	OFF
		26 bit	
	ON	1	2
	OFF	ON	OFF
		30 bit	
	ON	1	2
	OFF	OFF	ON
		44 bit	
	ON	1	2
	OFF	ON	ON
		No usado	

DIPSWITCH 3

	ON	3
	OFF	ON
		Standard

DIPSWITCH 4

	ON	4
	OFF	OFF
		5V
		12V

BORNERO (8 PUNTOS)

+	Alimentación 12 Vcc
-	0 V
H	Clock
D0	Data 0
D1	Data 1
B	Buzzer
V	LED verde
R	LED rojo

Al conectar el lector

- El LED verde se enciende 1 seg.
- El LED rojo se enciende 1 seg.
- Se emite 1 pitido durante 1 seg.

Funcionamiento

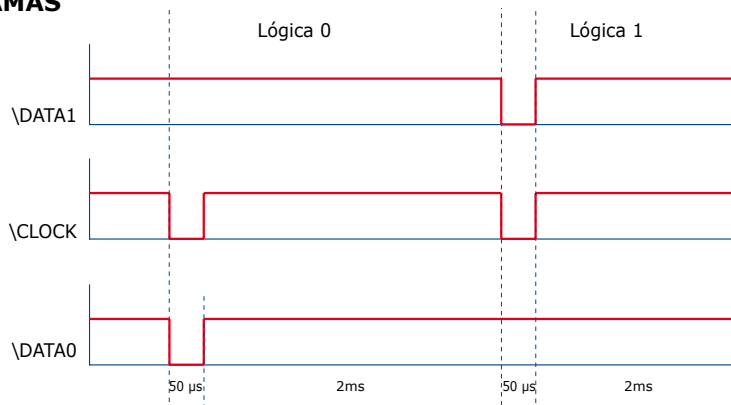
- Activación de buzzer con 0 V.
- Activación de LED con 0 V.

Funcionamiento de los LED

LED verde	LED rojo	Estado
OFF	OFF	Inactivo
OFF	ON	Rojo
ON	OFF	Verde
ON	ON	Azul

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Lector de proximidad 125 kHz empotrable

6] FORMATO DE SALIDA WIEGAND 26, 30 Y 44 BITS**CRONOGRAMAS**

Salidas en colector abierto con pull ups internos de 1 K a +5 o +12 V según posición de dipswitch ST4.

FORMATO WIEGAND 26 BITS

1 - Primera paridad: 1 bit – paridad par de los primeros 12 bits.

Código del tag: 6 mitades de un byte que representan los últimos 6 dígitos del código (4 bit=1 dígito).
Cada byte se transmite desde el bit 7 al bit 0.

2 - Segunda paridad: 1 bit – paridad impar de los últimos 12 bits.

Bit 1	Bit 2 a bit 25	Bit 26
Paridad par de bit 2 a bit 13	Datos (24 bits)	Paridad impar de bit 14 a bit 25

Ejemplo: para una tarjeta donde el código hexadecimal es 100166A37.

1	0001	0110	0110	1010	0011	0111	0
Paridad 1	1	6	6	A	3	7	Paridad 2

El código que se transmite en hexadecimal es 166A37.

Paridad 1: "0" si el número de 1 desde el bit 2 al bit 13 es par.

"1" si el número de 1 desde el bit 2 al bit 13 es impar.

Paridad 2: "0" si el número de 1 desde el bit 14 al bit 25 es impar.

"1" si el número de 1 desde el bit 14 al bit 25 es par.

MOONARW - MOONARB*Lector de proximidad 125 kHz empotrable***FORMATO WIEGAND 30 BITS****1 - Primera paridad:** 1 bit – paridad par de los primeros 14 bits.

Código del tag: Se forma con 7 mitades de un byte.

Cada byte se transfiere desde el bit 7 al bit 0.

2 - Segunda paridad: 1 bit – paridad impar de los últimos 14 bits.

Bit 1	Bit 2 a bit 29	Bit 30
Paridad par de bit 2 a bit 15	Datos (28 bits)	Paridad impar de bit 16 a bit 29

Ejemplo A: para una tarjeta cuyo código decimal es 01235A86F1.

0	0011	0101	1010	1000	0110	1111	0001	0
Paridad 1	3	5	A	8	6	F	1	Paridad 2

El código que se transmite en hexadecimal es 35A86F1.

Paridad 1: "0" si el número de 1 desde el bit 2 al bit 15 es par.

"1" si el número de 1 desde el bit 2 al bit 15 es impar.

Paridad 2: "0" si el número de 1 desde el bit 16 al bit 29 es impar.

"1" si el número de 1 desde el bit 16 al bit 29 es par.

FORMATO WIEGAND 44 BITS**Datos:** SN de 10 dígitos en hexadecimal (MSByte en primer lugar).

Cada dígito en hexadecimal = 4 bit (MSBit en primer lugar).

LRC : 4 bit = 0 restringido entre los dígitos de los datos (MSBit en primer lugar).

Bit 1 a bit 40	Bit 41 a bit 44
SN de la tarjeta, MSBit primero	LRC

Ejemplo A: para una tarjeta EM cuyo SN en hexadecimal es 01001950C3.

0000	0000	0000	0000	0001	1001	0101	0000	1100	0011	0011
0	1	0	0	1	9	5	0	C	3	3

El código que se transmite en hexadecimal es 01001950C3.

Lector de proximidad 125 kHz empotrable

AZUL EN STAND-BY

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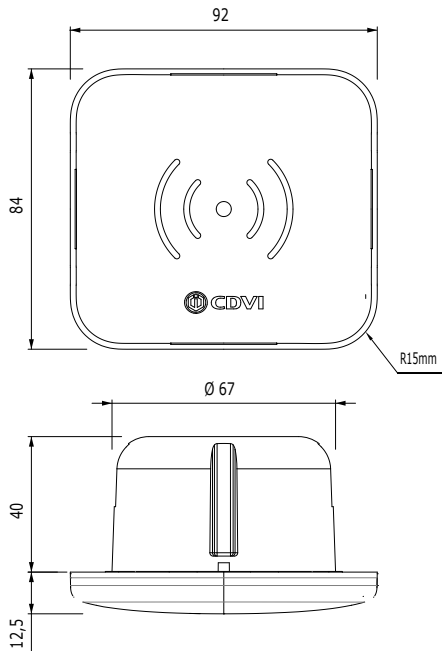
Flush-mount 125Khz proximity Reader

Thank you for buying our products and for the confidence you placed in our company.

1] PRODUCT PRESENTATION

- **Wiegand 26, 30 or 44 bit.**
- **Flush-mount with embedding box (supplied).**
- **Direct connection or with the door controller (INTBUSW).**
- **Audible and visual feedback.**
- **Versions available: white or black.**

- Dimensions (L x W x D): 92 x 84 x 12,5mm.
- Technology: 125 kHz.
- Multi card protocol reader - Marin/HD.
- Input voltage: 12V dc.
- Consumption: 80mA.



RoHS



WEEE



IP52



CE Certification



-25°C to +70°C

Recommended Power supplies



ARD12



BS60

2] REMINDERS AND RECOMMENDATIONS

Important

To protect the device from back-emf, do not forget to install the varistor across the lock terminals, in parallel.

Suggested power supplies

ARD12 & BS60 (in case the reader is powered neither by the controller nor by the reader controller INTBUSW). These products must be powered in 12Vdc and the power supply should be certified EN60950-1:2006/A11:2009 standards and should be designed to be a limited power supply source.

Recommended cables

4 twisted pairs 0.6mm (AWG 24).

Environment

When in a humid area or close to the sea, we recommend applying varnish to the terminals to avoid oxidation.

This product is supplied with a varistor.

The varistor must be connected directly to the locking system terminals (electric strikes, electromagnet, or lock) operated by the device. If the device functions with several locking systems, each one must be fitted with a varistor. The varistor limits overload produced by the strike coil, known as self-effect or back-emf. If you are using a "Shear Lock", electromagnet or other type of electric lock, we recommend the use of a dedicated power supply for the lock.

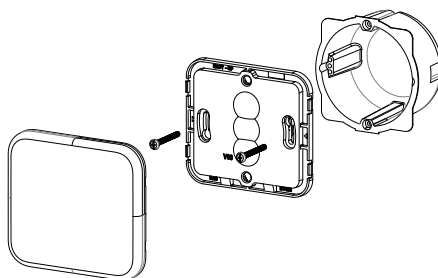
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Flush-mount 125Khz proximity Reader

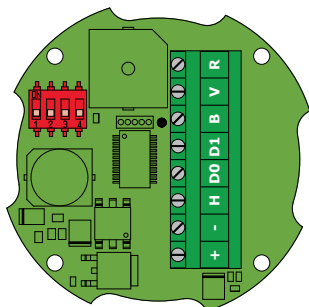
3] MOUNTING KIT

				
	Front plate	Electronic part	Embedding box with screws	Varistor
MOONAR	1	1	1	1

4] MOUNTING INSTRUCTIONS



5] WIRING



TERMINAL BLOCK (8 POINTS)	
+	Input voltage 12V dc
-	0V
H	Clock
D0	Data 0
D1	Data 1
B	Buzzer
V	Green LED
R	Red LED

When powered up

- Green LED illuminates for 1 second.
- RED LED illuminates for 1 second.
- Buzzer sounds for 1 second.

Operating mode

- Buzzer activated with 0V input.
- LEDs activated with 0V input.

Input LED management		
Green LED	Red LED	Status
OFF	OFF	Off
OFF	ON	red
ON	OFF	green
ON	ON	blue

DIPSWITCH 1 & 2 POSITIONING

	ON	1	2
	OFF	OFF	OFF
		26 bit	
	ON	1	2
	OFF	ON	OFF
		30 bit	
	ON	1	2
	OFF	OFF	ON
		44 bit	
	ON	1	2
	OFF	ON	ON
		Not used	

DIPSWITCH 3 POSITIONING

	ON	3
	OFF	ON
		Standard

DIPSWITCH 4 POSITIONING

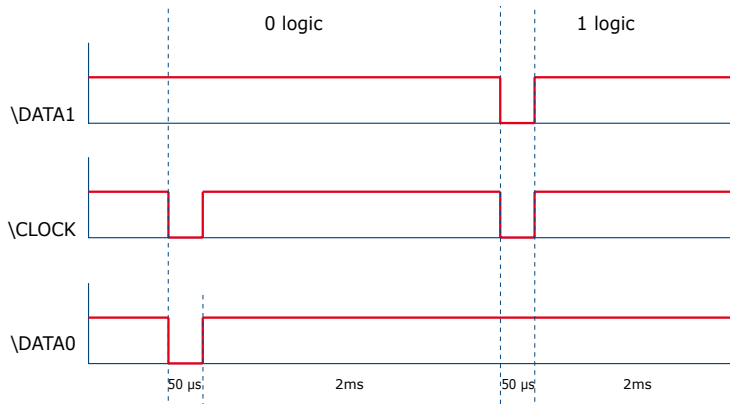
	ON	4
	OFF	ON
		5V 12V

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Flush-mount 125Khz proximity Reader

6] OUTPUT FORMATS 26, 30 AND 44 BIT WIEGAND

CHRONOGRAMS



Open collector output with internal pulls up 1K at +5V or +12V according the dipswitch 4 position.

26-BIT WIEGAND OUTPUT

1 - First parity: 1-bit – even parity for the first 12-bit

Code of the badge: 6 half byte represent the last 6 digit of the code (4bit = 1 digit of a code)

Each byte is transferred from bit 7 to bit 0.

2 - Second parity: 1 bit – odd parity for the last 12-bit.

Bit 1	Bit 2 to bit 25	Bit 26
Even Parity on bit 2 to bit 13	Data (24 bit)	Odd Parity on bit 14 to bit 25

Example: code of the badge is 0100166A37.

1	0001	0110	0110	1010	0011	0111	0
Parity 1	1	6	6	A	3	7	Parity 2

The code transmitted is in hexadecimal format 166A37

Parity 1: 0 if the number of 1 in bit 2 to bit 13 is even,
1 if the number of 1 in bit 2 to bit 13 is odd.

Parity 2: 0 if the number of 1 in bit 14 to bit 25 is odd,
1 if the number of 1 in bit 14 to bit 25 is even.

MOONARW - MOONARB*Flush-mount 125Khz proximity Reader***30-BIT WIEGAND OUTPUT****1 - First parity:** 1 bit – even parity for the first 14-bit

Code: A code is formed from 7 half byte.

Each byte is transferred from bit 7 to bit 0.

2 - Second parity: odd parity for the last 14-bit.

Bit 1	Bit 2 to bit 29	Bit 30
Even Parity from bit 2 to bit 15	Data (28-bit)	Odd Parity from bit 16 to bit 29

Example A: Temic card hexadecimal code: 01235A86F1).

0	0011	0101	1010	1000	0110	1111	0001	0
Parity 1	3	5	A	8	6	F	1	Parity 2

The code number of the card is 35A86F1 in hexadecimal.

Parity 1: 0 if the number of 1 in bit 2 to bit 15 is even,

1 if the number of 1 in bit 2 to bit 15 is odd,

Parity 2: 0 if the number of 1 in bit 16 to bit 29 is odd,

1 if the number of 1 in bit 16 to bit 29 is even.

44-BIT WIEGAND FORMAT OUTPUT**Data:** 10 digit code number hexadecimal MSByte first. Each hexadecimal digit = 4 bit, MSBit first.**LRC:** 4 bit = OR restricted in between the digit of the data, MSBit first.

Bit 1 to bit 40	Bit 41 to bit 44
Data MSBit first	LRC

Example A: EM badge hexadecimal code: 01001950C3.

0000	0000	0000	0000	0001	1001	0101	0000	1100	0011	0011
0	1	0	0	1	9	5	0	C	3	3

The code number of the card is: 01001950C3 in hexadecimal code.

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Flush-mount 125Khz proximity Reader

7] LED CONFIGURATION ON CENTAUR SYSTEM

LED ACTUATION :
GREEN ACCESS ALLOWED
RED ACCESS DENIED
BLUE STAND-BY

RED LED SETTINGS

Access granted: Off
 Access denied: On

GREEN LED SETTINGS

Access granted: On
 Access denied: Off

Output Properties

Output Events

Activation time: 005 seconds (1 to 999) ☒ Inverted

Anti-passback status: Off Wrong code on keypad: Off

Access granted: Off Door opens: Off ☐ latched

Access denied: Off Door forced opens: Off ☐ latched

REX granted: Off Reader disabled: Off ☐ latched

REX denied: Off Door open pre-alarm: Off ☐ latched

Access time-out: Off Door open too long: Off ☐ latched

Waiting for keypad: Off Door unlocked: Off ☐ latched

Keypad time-out: Off

OK Cancel

8] LED CONFIGURATION ON ATRIUM SYSTEM

LED ACTUATION
GREEN ACCESS ALLOWED / **RED** ACCESS DENIED / **BLUE** STAND-BY

Tableau de bord - Matrière - Configuration générale - Langues

Présentation: Dictionnaire Manuel de l'utilisateur Lecteurs de proximité

Lecteurs

Etat

Actif	Proximité	ID	Si le lecteur est module	DEL rouge	DEL verte	Caractéristiques	Couleur de l'éclairage
☒	Reader 1	1	00-00-00-00	Reader 01 Red Light	Reader 01 Green Light	Reader 01 Reader	Généraliste (Rouge & Vert)
☒	Reader 2	2	00-00-00-00	Reader 02 Red Light	Reader 02 Green Light	Reader 02 Reader	Généraliste (Rouge & Vert)
☒	Reader 3	3	00-00-00-00	Reader 03 Red Light	Reader 03 Green Light	Reader 03 Reader	Généraliste (Rouge & Vert)
☒	Reader 4	4	00-00-00-00	Reader 04 Red Light	Reader 04 Green Light	Reader 04 Reader	Généraliste (Rouge & Vert)
☒	Reader 5	5	00-00-00-00	Reader 05 Red Light	Reader 05 Green Light	Reader 05 Reader	Généraliste (Rouge & Vert)
☒	Reader 6	6	00-00-00-00	Reader 06 Red Light	Reader 06 Green Light	Reader 06 Reader	Généraliste (Rouge & Vert)
☒	Reader 7	7	00-00-00-00	Reader 07 Red Light	Reader 07 Green Light	Reader 07 Reader	Généraliste (Rouge & Vert)
☒	Reader 8	8	00-00-00-00	Reader 08 Red Light	Reader 08 Green Light	Reader 08 Reader	Généraliste (Rouge & Vert)
☒	Reader 9	9	00-00-00-00	Reader 09 Red Light	Reader 09 Green Light	Reader 09 Reader	Généraliste (Rouge & Vert)
☒	Reader 10	10	00-00-00-00	Reader 10 Red Light	Reader 10 Green Light	Reader 10 Reader	Généraliste (Rouge & Vert)
☒	Reader 11	11	00-00-00-00	Reader 11 Red Light	Reader 11 Green Light	Reader 11 Reader	Généraliste (Rouge & Vert)
☒	Reader 12	12	00-00-00-00	Reader 12 Red Light	Reader 12 Green Light	Reader 12 Reader	Généraliste (Rouge & Vert)
☒	Reader 13	13	00-00-00-00	Reader 13 Red Light	Reader 13 Green Light	Reader 13 Reader	Généraliste (Rouge & Vert)
☒	Reader 14	14	00-00-00-00	Reader 14 Red Light	Reader 14 Green Light	Reader 14 Reader	Généraliste (Rouge & Vert)
☒	Reader 15	15	00-00-00-00	Reader 15 Red Light	Reader 15 Green Light	Reader 15 Reader	Généraliste (Rouge & Vert)
☒	Reader 16	16	00-00-00-00	Reader 16 Red Light	Reader 16 Green Light	Reader 16 Reader	Généraliste (Rouge & Vert)
☒	Reader 17	17	00-00-00-00	Reader 17 Red Light	Reader 17 Green Light	Reader 17 Reader	Généraliste (Rouge & Vert)
☒	Reader 18	18	00-00-00-00	Reader 18 Red Light	Reader 18 Green Light	Reader 18 Reader	Généraliste (Rouge & Vert)
☒	Reader 19	19	00-00-00-00	Reader 19 Red Light	Reader 19 Green Light	Reader 19 Reader	Généraliste (Rouge & Vert)
☒	Reader 20	20	00-00-00-00	Reader 20 Red Light	Reader 20 Green Light	Reader 20 Reader	Généraliste (Rouge & Vert)

Propriétés de lecteur

Informations générales

Broche: Reader 1

Couleur de l'éclairage: LED Rouge, Vert & Bleu

Série DEL Rouge: 00-00-00-00 Reader 01 Red Light

Série DEL Verte: 00-00-00-00 Reader 01 Green Light

Série carillon: 00-00-00-00 Reader 01 Buzzer

Notes

Annuler

* In Digicode® keypad mode only or Proximity mode only.

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The installer's choice
cdvigroup.com