

## Thin Model Proximity Card Reader

The BDR-310-CR is a proximity reader which reads HC 125 KHz/FSK contactless cards and/or keytags. The reader is used for connecting to Wiegand input of the access control systems. Users can select the suitable model for connecting to dedicated controller or PC for various applications. The LED will turn red when power is applied, the red LED will flash green and the buzzer beeps simultaneously when the user presents the proximity card.



Available in  
White (P/N BDR-310-CRW)  
or Black (P/N BDR-310-CRB)  
(not to scale)

## Features

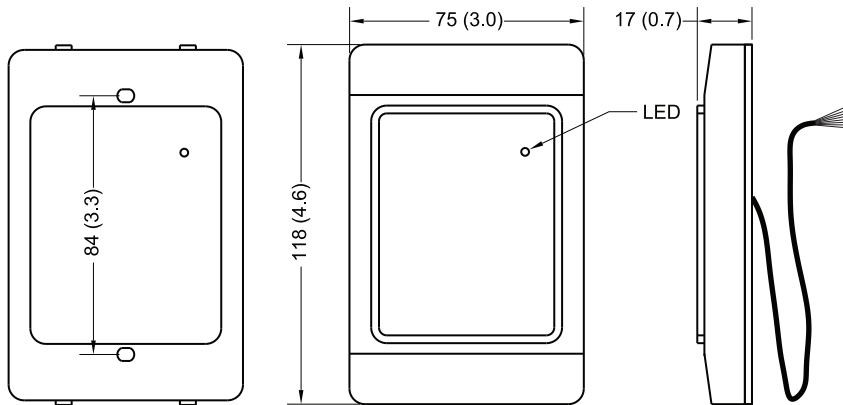
- Proximity / RF / Remote reader to send out Wiegand / TTL / RS-485 / RS -232C/USB/ABA.
- 125KHz ASK type and various Wiegand format (26/34/44 bits) output.
- Compact size
- Contactless/proximity reading technology provides a user friendly solution access controller-no swiping or contact required.
- Passive contactless card and keyfobs require no batteries
- Weather resistant. "Epoxy Potted" construction ensures consistent performance in the most adverse environment.
- Easy to install, low profile and designed for indoor or outdoor application
- With CPU watch-log function to prevent malfunction
- Compatible with proximity card and proximity keyfob ... etc

## Specifications

<b>RFID frequency</b>	125Khz FSK
<b>Applicable cards</b>	HC
<b>Read range</b>	7 ± 1 cm / 2.75 ± 0.25in
<b>Output format</b>	Wiegand 26 / 34 bits
<b>Power input</b>	12 VDC
<b>Standby / Operating current</b>	34mA±10% @ 12 VDC / 53mA±10% @ 12 VDC
<b>Material</b>	ABS
<b>Dimensions (LxWxH)</b>	118 x 75 x 17 mm / 4.6 x 3.0 x 0.7 inches
<b>Operating temperature</b>	-10°C ~ 75°C
<b>Storage temperature</b>	-20°C ~ 85°C
<b>Colors:</b>	White: BDR-310-CRW Black: BDR-310-CRB

Date: 11.07.2017 Specifications subject to change without notice.

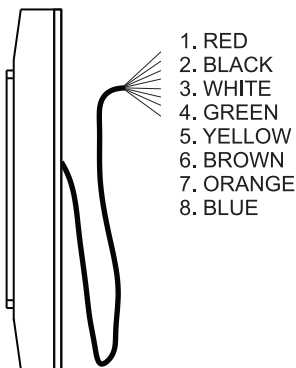
## Dimensions : Unit: mm[inch]



## Installation Guide

- Select appropriate place to install the reader and mark the location for mounting holes of the template.
- Drill a 8mm hole on the wall for passing the cable.
- Drill two 5mm holes to fix the reader on the wall with provided screws.
- Connect wires to the access controller.
- Use linear (not-switching) type power supply that is isolated from other devices.
- Use separate power supply for the reader, a common ground should be connected between the reader and the controller system.
- Use a shielded cable to reduce interferences from the external environment.

## Wire configuration



PIN	Color	Output Format Wiegand 26 / 34 Bits	
1	RED	+12 v	
2	BLACK	GND	
3	WHITE	---	
4	GREEN	—	
5	YELLOW	Data 1	
6	BROWN	Data 0	
7	ORANGE	LED BUZZER	Normal: Hi (+5VDC)
			Presenting Card: Low
8	BLUE	—	

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