

INSTALLATION

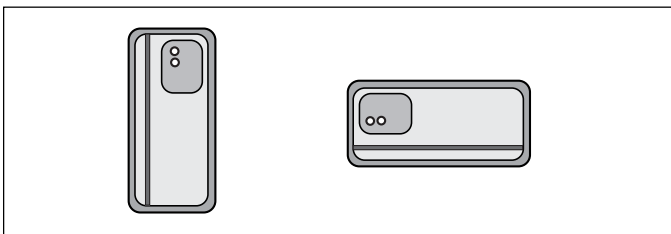
580 Magnetic Stripe Card Reader

Description

The 12 volt Model 580 Magnetic Stripe Card Reader allows you to read DMP Model 585 Easy Entry™ cards for access control applications. The 580 can be connected to any DMP Command Processor™ panel using a 733 Wiegand Interface Module or a 693, 791, or 793 keypad.

Mounting

The 580 is suitable for indoor or outdoor use and may be mounted vertically or horizontally. See drawing for recommended mounting orientation. Rigid conduit is required for outdoor applications. A single gang junction box may be used to provide transition to rigid conduit. The reader is secured to the mounting bracket using the supplied UNC6-32-3/8" screw.



Recommended Reader Mounting

Weatherproofing

When mounting in an outdoor application, a tube of dielectric grease is supplied to coat field connections to seal out moisture. After all connections are made, apply the grease to the DIP switch slides and the modular jack. Squeeze a small amount of grease into the modular jack before connecting the cable.

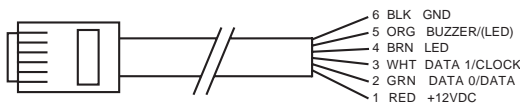
Note: Do not use *any* sealant to seal reader case to the wall as this may trap moisture in the reader and cause damage.

Wiring

Connect the wires of the supplied RJ-11 cable using the information below.

Signal Name	RJ-11 cable	DMP 693, 791, and 793 keypads	DMP 733 Wiegand Interface
+12Vdc	RED	RED	RED
DATA 0	GRN	GRN/WHT	GRN
DATA 1	WHT	WHT	WHT
GND	BLK	BLK	BLK
LED	BRN	N/A	RA
BUZZER	ORG	N/A	RA

Model 580 Wiring



RJ-11 Cable

The 580 reader casing must be grounded to prevent electrostatic discharge (ESD) from interfering with operation. Attach the reader mounting bracket to an earth ground locally.

LED and Buzzer Operation

The 580 reader's brown (LED) and orange (Buzzer) wires can be connected to the RA switched ground of the 733 Wiegand Interface Module.

LED and Buzzer (brown and orange wire)

LED is red. After card is read the buzzer beeps once and the LED turns green momentarily.

LED only (brown wire)

LED is OFF. After card is read, LED turns green momentarily. No buzzer beep at any time.

Buzzer only (orange wire)

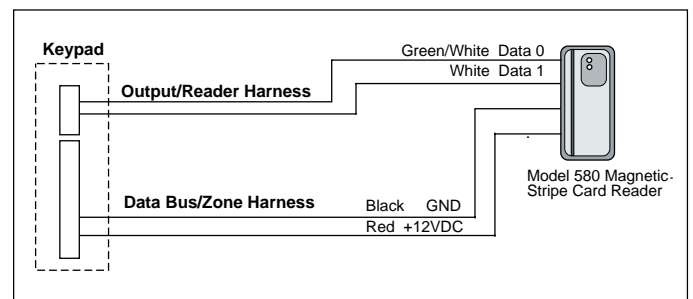
LED is OFF. After card is read, buzzer will beep once. No LED display at any time.



733 Wiring Diagram for LED and Buzzer

Keypad Connection

The 580 may be connected to a DMP Model 693, 791 or 793 keypad.

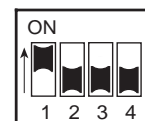


Keypad Wiring Diagram

Note: When connecting to a DMP keypad, LED or buzzer connections are not supported.

Dip Switch Settings

The Model 580 DIP switch settings are factory preset in the following configuration for proper operation.



Operation

Verify proper connection and correct power supply voltage to the Model 580 reader before the application of power. A self-test is performed when power is first applied to the unit. After the power-on test is successfully completed, the reader turns on the LED for approximately 1 second and sounds the buzzer for 1 short beep. The reader is now ready for normal operation.

Maintenance

The 580 reader is designed to provide continuous service with minimal routine maintenance. However, contaminants will tend to accumulate on the read head. Without regular cleaning, this will shorten the life of the read head and increase the probability of card read errors.

Head cleaning may be done by using a disposable, pre-saturated magnetic head cleaning card. These cards are readily available from a number of sources (e.g. Clean Team Co. 805-581-1000). The reader exterior may be cleaned with a soft cloth and mild detergent if required.

Note: A maintenance schedule should be developed based on the card reader environment and usage.

Specifications

Power:	Voltage:	10.2 to 13.8 Vdc
	Current:	50mA (20mA typical)
Annunciators:		One bi-color LED: red/green
		Buzzer
Mechanical:	Dimension:	1.95"W x 1.30"H x 5.50"L
	Weight:	10 oz. nominal
	Material:	Case: Die cast aluminum
High Coercivity Card:		DMP Model 585 Easy Entry™ Card
Read Head:		500,000 passes typical, standard
Wire Distance:		500 ft. at 18AWG
Environmental:	Temperature:	-40 to +75 degrees C, operating
	Humidity:	0 - 100%, RHNC standard
DIP Switch Setting:		SW1 ON, SW 2, 3 and 4 OFF