

## RFID SHORT RANGE READER

The RFID Short range reader\* connects to any Syrus device that supports 1-WIRE interface, capable of implementing contactless personnel identification or access control capabilities.

PART NUMBER

70075

\* Requires the Syrus Multiprotocol Box.

CR80 13.56MHz MIFARE

Heavy duty automotive grade for long lasting usage

Easy to install with mounting holes

Read range: up to 5cm

Applications

Access control

Driver Identification



IC - Works with 13.56MHz

Wiegand interface

LED & buzzer indicator

Auxiliary RS-232 port

Indoor / Outdoor Operation

Solid Epoxy Potted

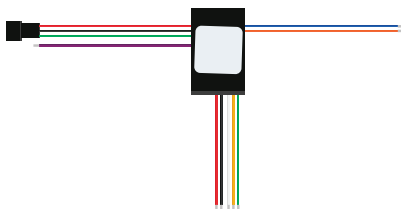
Waterproof IP65

Contactless cards:  
CR80 13.56MHz MIFARE

## SYRUS MULTIPROTOCOL BOX

PART NUMBER

70076



Converts Wiegand to 1-wire

Converts 13.56MHz to 1-wire

Auxiliary RS-232 output

## PEGASUS CONFIGURATION

Syrus RFID Standard

### COMMANDS

Query Version

>QXAWGV11<

Query last RFID read

>QRIL<

Reset the reader

>SXAWGR11<

Query if an RFID is authorized

>QRIS11156788<

Start reader fw upgrade\*

>SXAWGF11r\_2.0.1<

Query the list of Authorized RFIDs

{comma separated}

>QRIA<

Query the fw upgrade status

>QXAWGF11<

>SRIA11156799<

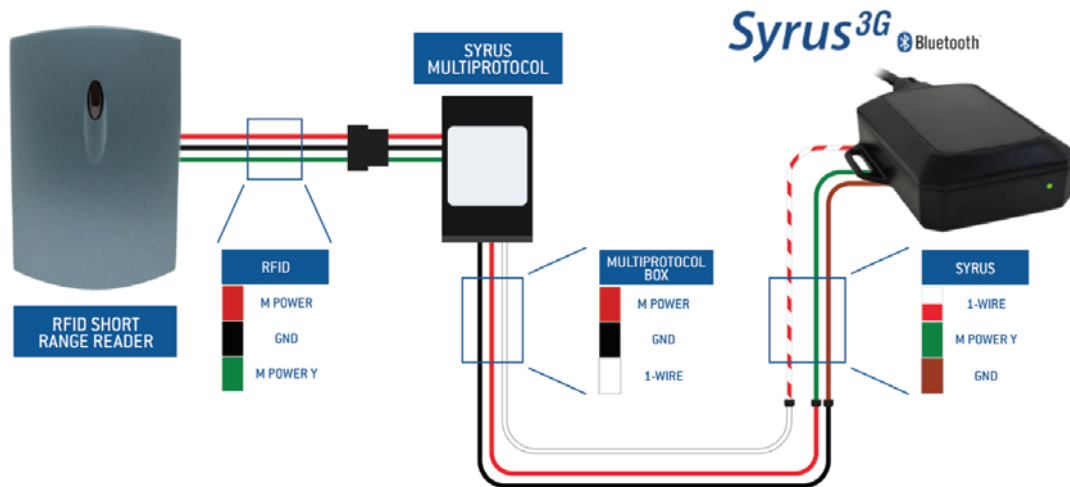
\* For more information on the latest stable firmware versions, please visit our support website at [support.digitalcomtech.com](http://support.digitalcomtech.com)



## WIRING DIAGRAM & INSTALLATION

One end of the RFID Short Range Reader has a connector for the Syrus Multiprotocol box. Afterwards you can power up the reader using the red & black wires. Finally, connect the Syrus Multiprotocol box white wire to the Syrus 1-wire red/white cable.

For mounting purposes you'll need to use a screwdriver to open the RFID reader. You'll need two holes where you can use a phillips head screw to mount securely.



## PINOUT

### RFID Wiring Pinout

Red	RFID reader power
Black	RFID ground
Green	RFID communication

### Syrus Multiprotocol Box

Purple	Reserved cable
Red	Power for RFID reader
Black	RFID ground
Green	RFID communication
Green	Auxiliary RS-232 Rx (Receive)
Yellow	Auxiliary RS-232 Tx (Transmit)
White	1-wire bus. Connect to Syrus 1-WIRE White/Red cable.
Black	Electrical ground. Connect to the vehicle's battery negative or Syrus GND.
Red	Main Power. Connect to the vehicle's battery or Syrus MPOWER [9V - 32V].
Orange	Wiegand Data 0
Blue	Wiegand Data 1

### Syrus 3G

White/Red	1-wire bus
Green	Direct, non-protected connection with M POWER (pin 3). Use it to derive power to accessories.
Brown	Device's Electrical Ground. Useful for Inputs' or Accessories' Electrical Ground.

## TECHNICAL SPECIFICATIONS

### ELECTRICAL SPECIFICATIONS

*Voltage input range	9VDC - 18VDC
Current Consumption	~ 100mA @ 12V
Protections	Over Voltages Short Circuits Reverse Polarity

\*For installations where the vehicle's voltage is +24 V derived from two batteries (12V + 12V), you should install one of the two batteries such that the main power for the accessory is only +12V.

### OTHER SPECIFICATIONS

Reading Time (Card)	≤300ms
Power / Current	DC 6-14V / Max.70mA
Output Format	Wiegand / 13.56 MHz
LED Indicator	2 Color LED Indicators (Red and Green)
Buzzer	Yes
Operating Temperature	-20° to +65°C
Operating Humidity	10% to 90% relative humidity non-condensing
Color	Dark gray
Material	ABS+PC with texture
Dimension (W x H x T)mm	126 x 76 x 23mm
Weight	50g
Index of Protection	IP65