

## RFID 125KHz Reader Module Specification

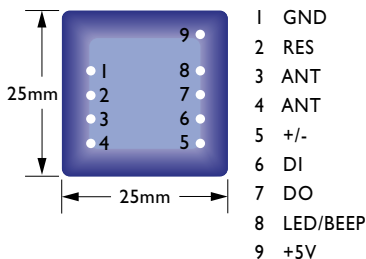
Items/Spec	EM-10	ID-12	ID-20
Read Range	5+cm	12+cm	16+cm
Dimensions	25mm x 25mm x 6.5mm	26mm x 25mm x 7mm	40mm x 40mm x 9mm
Frequency	125 KHz	125 KHz	125 KHz
Card Format	EM 4001 or compatible	EM 4001 or compatible	EM 4001 or compatible
Encoding	Manchester 64-bit, modulus 64	Manchester 64-bit, modulus 64	Manchester 64-bit, modulus 64
Power Requirement	5 VDC @ 35mA nominal	5 VDC @ 30mA nominal	5 VDC @ 65mA nominal
I/O Output Current			
Voltage Supply Range	+4.6V through +5.4V	+4.6V through +5.4V	+4.6V through +5.4V
Interface	Wiegand 26bit/RS232	Wiegand 26bit/RS232 Magent Emulation	Wiegand 26bit/RS232 Magent Emulation

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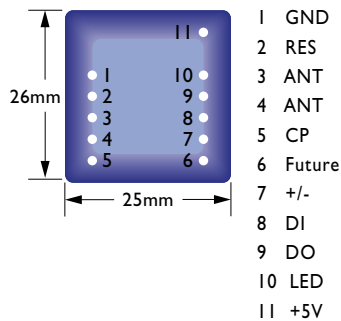
Items/Spec	EM-16	EM-05	EM-9888
Read Range	8+cm	5+cm	15+cm
Dimensions	30mm x 30mm x 5.8mm	23mm x 6mm	32mm x 21mm x 4mm
Frequency	125 KHz	125 KHz	125 KHz
Card Format	EM 4001 or compatible	EM 4001 or compatible	EM 4001 or compatible
Encoding	Manchester 64-bit, modulus 64	Manchester 64-bit, modulus 64	
Power Requirement	5 VDC @ 30mA nominal	5 VDC @ 35mA nominal	12 VDC @ 300mA nominal
I/O Output Current			
Voltage Supply Range	+4.6V through +5.4V	+4.6V through +5.4V	
Interface	Wiegand 26bit/RS232	Only Wiegand 26bit	Wiegand 26bit /RS232/ RS485(External MCU Chip)

### BOTTOM VIEW

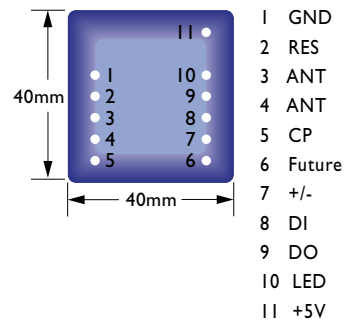
#### EM-10



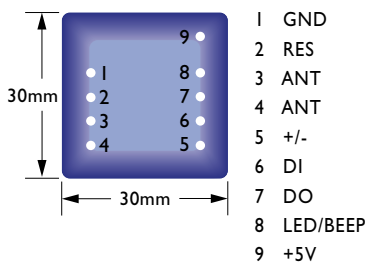
#### ID-12



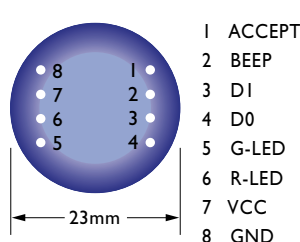
#### ID-20



#### EM-16



#### EM-05



#### EM-9888

