Ins-30024 - OEM Magstripe reader, clock and data output

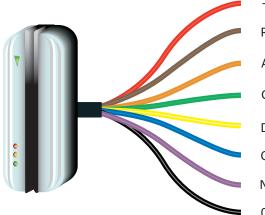


Fitting





Wiring

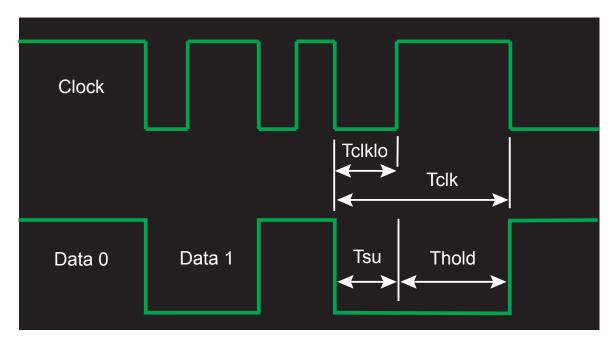


+12V DC
Red LED
Amber LED
Green LED
Data
Clock
Not Required
0V

Pull directly to 0V to light LED Pull directly to 0V to light LED Pull directly to 0V to light LED Open collector Open collector

Output format

The following diagram applies to all readers with serial number greater than or equal to 090008



The Clock period (Tclk) is variable and will depend on the speed that the user card is swiped through the reader.

Data period (Tclk) = > 60 μ s but < 3000 μ s Data Hold Time (Thold) = Tclk - Tclklo Data Set-up Time (Tsu) = Tsu = Tclklo Data Clock Low (Tclklo). This is 'data dependent' but will approximate to the following: If Data = 0 (High) then Tclklo = Tclk / 2 If Data = 1 (Low) then Tclklo = Tclk / 3

Cable extensions

Readers can be extended using Belden CR9540 10-core overall screened cable to a maximum of 100 metres.

Specifications					
	Min	Max			
Environment					
Operating temperature	-20 °C	+55 °C			
Cable length			5 metres		
IP Rating	IPX7		Outdoor Use		
Reader head life	1,000,000		Swipes		
Electrical					
Voltage	8V DC	14V DC			
Current	90 mA	110 mA			
Clock and data bit period	60 µs	3000 µs			
Media speed	125 mm/s	1250 mm/s			
Media acceleration		500 mm/s ²			
Magnetic stripe coercivity	300 Oe	4000 Oe			
Dimensions					
	Width	Height	Depth		
Reader	34 mm	89 mm	34 mm		

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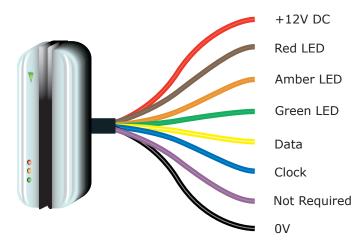


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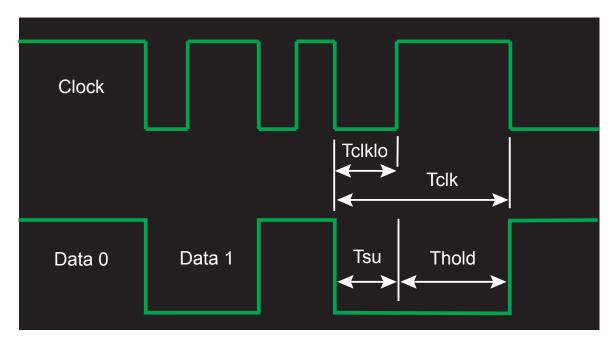
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