

**SERIAL OUTPUT DATA PROTOCOL****LL IN8-RS0v3 - Potential free contact module****Rev. 0v3****SERIAL FORMAT** - 9600 baud, 1 start bit, 8 data bits, 2 stop bits, no parity.**CABLE MANAGEMENT** - For RS423 use two-core shielded cable.  
Shielding=earthing - involved on both sides. RS232 for short distances - you can use a single core shielded cable.**MAXIMUM CABLE LENGTH** - RS423 1200m, RS232 100m.**TERMINATION** - is not required, but recommended the finish line impedance R = cca.120ohm / 0.6 W**BRANCHING** - is not a problem.**HANDSHAKING** - is not required - RTS (pin E or 5 on the BBC Micro, or pin 4 to 25 pin „D“) and CTS (pin D or 2 on the BBC Micro, or pin 5 to 25 pin „D“) must be mutually connected to the computer.**NUMBER OF CHANNELS** - according to protocol.**TRANSFER PROTOCOL** ( label soft on LL IN8-RS: I8 0v3 ):

Input device (LL IN8-RS) scans eight inputs and sends the following data by ON, HOLDING and OFF the entry:

Broadcast data by Switch ON:	I x x O N <CR>
Broadcast data by HOLD:	I x x H O <CR>
Broadcast data by Switch OFF:	I x x O F <CR>

where: x x - is the number of input 01 – 08**NOTE:**

Treatment of inputs is about. 60ms, the command is sent after holding approx.1, 2s.

*These informations are subject to change, updates are on: [www.leaderlight.eu](http://www.leaderlight.eu)***SERIAL OUTPUT DATA PROTOCOL****LL IN8-RS0v4 - Potential free contact module****Rev. 0v4****SERIAL FORMAT** - 9600 baud, 1 start bit, 8 data bits, 2 stop bits, no parity.**CABLE MANAGEMENT** - For RS423 use two-core shielded cable.  
Shielding=earthing - involved on both sides. RS232 for short distances - you can use a single core shielded cable.**MAXIMUM CABLE LENGTH** - RS423 1200m, RS232 100m.**TERMINATION** - is not required, but recommended the finish line impedance R = cca.120ohm / 0.6 W**BRANCHING** - is not a problem.**HANDSHAKING** - is not required - RTS (pin E or 5 on the BBC Micro, or pin 4 to 25 pin „D“) and CTS (pin D or 2 on the BBC Micro, or pin 5 to 25 pin „D“) must be mutually connected to the computer.**NUMBER OF CHANNELS** - according to protocol.**TRANSFER PROTOCOL** for E-Cue ( label soft on LL IN8-RS: I8 0v4 ):

Input device (LL IN8-RS) scans eight inputs and sends the following data by ON, HOLDING and OFF the entry:

Broadcast data by Switch ON:	Z x x <CR>
Broadcast data by HOLD:	D x x <CR>
Broadcast data by Switch OFF:	V x x <CR>

where: x x = 11 – 18 (number of input 1 – 8)**NOTE:**

Treatment of inputs is about. 60ms, the command is sent after holding approx.1, 2s.

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Shielding=earthing - involved on both sides. RS232 for short distances - you can use a single core shielded cable.**MAXIMUM CABLE LENGTH** - RS423 1200m, RS232 100m.**TERMINATION** - is not required, but recommended the finish line impedance R = cca.120ohm / 0.6 W**BRANCHING** - is not a problem.**HANDSHAKING** - is not required - RTS (pin E or 5 on the BBC Micro, or pin 4 to 25 pin „D“) and CTS (pin D or 2 on the BBC Micro, or pin 5 to 25 pin „D“) must be mutually connected to the computer.**NUMBER OF CHANNELS** - according to protocol.**TRANSFER PROTOCOL** for Creator ( label soft on LL IN8-RS: I8 0v5 ):

Input device (LL IN8-RS) scans eight inputs and sends the following data by ON, HOLDING and OFF the entry:

Broadcast data by Switch ON:	I x x O N <CR> K 9 <CR>
Broadcast data by HOLD:	I x x H O <CR> K 9 <CR>
Broadcast data by Switch OFF:	I x x O F <CR> K 9 <CR>

where: x x = 01 – 08 (number of input 1 – 8)**NOTE:**

Treatment of inputs is about. 60ms, the command is sent after holding approx.1, 2s.

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