RX/TXD - RECEIVER-TRANSMITTER UNIT VERSATILE ENCODER INTERFACE

FEATURES

DIN rail mount
Level changes from Vcc to 5V
Signal Conditioner or Repeater for distance transmission
2 or 3-way splitter/level changer
Encoder tester/verifier

This lightweight DIN rail mountable unit, Line Driver and Line Receiver is composed of a PC/ABS self-extinguishing material blend. Configurable as a level changer, line repeater, splitter or encoder tester, the RX/TXD will accept TTL, RS422, RS485, PP, NPN, NPN OC, or PNP encoder inputs at 5V, or HTL, PP, NPN, NPN OC & PNP at 5-24V. It will provide up to three outputs in any combination of TTL, RS422, RS485, PP, at 5V, or HTL, PP at 5-24V. A series of LEDs on the front panel indicates power and signal presence. Connections are made via the easily accessible screw terminals as standard. This device may be used as both a Line Driver and Line Receiver.

RX/TXD ORDERING GUIDE

Blue type indicates price adder options. Not all configurations may be available. Contact Customer Service for details.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VERSION</th>
<th>ENCODER/SENSOR POWER</th>
<th>FINAL OUTPUT SIGNAL</th>
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<td>RX/TXD</td>
<td>1</td>
<td>5V only</td>
<td>5V Differential Driver¹</td>
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<td></td>
<td>2</td>
<td>24V 5 to 24 Vcc²</td>
<td>5V Push-Pull S/Ended²</td>
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<td></td>
<td>3</td>
<td>(three sets of outputs)</td>
<td>5-24V Differential Driver³</td>
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INPUT VOLTAGE

| V5     | 5V only |
| V3     | 5 to 24 V³ |

INPUT SIGNAL

| 5H     | 5V Differential Driver¹ |
| 5N     | 5V NPN Open Collector² |
| 5P     | 5V Push-Pull S/Ended² |
| 24H    | 5-24V Differential Driver³ |
| 24N    | 5-24V NPN Open Collector |
| 24P    | 5-24V Push-Pull S/Ended³ |

Notes:

1. 26V maximum voltage.
2. Encoder/sensor and output signal voltages are limited to the input voltage supplied. SN and SP input signal not available with 5-24Vcc option.
3. TTL, RS422, and RS485 compatible.
4. TTL, NPN (sink), PNP (source), PP.
5. HTL compatible.
6. NPN (sink), PNP (source), PP.

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RX/TXD SPECIFICATIONS

Electrical
Input Voltage: 5V to 26V max
Current Consumption: 250 mA typical
Repeater Output Voltage: 5V or Vcc
Frequency Response: Up to 800 KHz
Output Current: 30 mA/channel max

Mechanical
Weight: 250 g
Enclosure: PC/ABS, IP20
Terminal: Screw type 30/12 AWG

Environmental
Operating Temp: 0° C to 85° C

RX/TXD RECEIVER-TRANSMITTER

NOTES:
1. All RX/TXD versions can receive, transmit, repeat, refresh, condition, and level change digital signals.
2. All RX/TXD have LED indicator lights that can be used to verify/test digital signals.