

# Wave Logic



## TUBULAR WAVE™ HF 13.56MHz RFID TRANSCEIVERS

Wave Logic Introduces two new small form factor RFID high frequency (HF) transceivers in 18mm diameter and 30mm diameter tubular form factors for factory production line automation and robotic operations

- Both versions offer unprecedented compact form factors for ease of integration.
- IP67 Rated enclosures
- Offered with IP67 rated 8mm connectors or 3m communication cables.
- USB Serial interface  
RS232 & RS485 also available
- Aggressively priced against competitive products
- Four LEDs for transceiver status viewable from sides and rear viewing angles
- Two mounting nuts included
- 200mW output power
- 5Vdc, 200mA (1W) power requirement
- ISO 15693 & ISO 18000-3



TUBULAR WAVE™ 18mm & 30mm Diameter Tubular  
ISO15693/ISO14443 RFID Transceivers

### Target Applications:

- Factory Automation
- Robotic Operations
- Integration into OEM equipment
- Pharmaceutical and Biomedical Processes
- Asset tracking

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Revision 130222

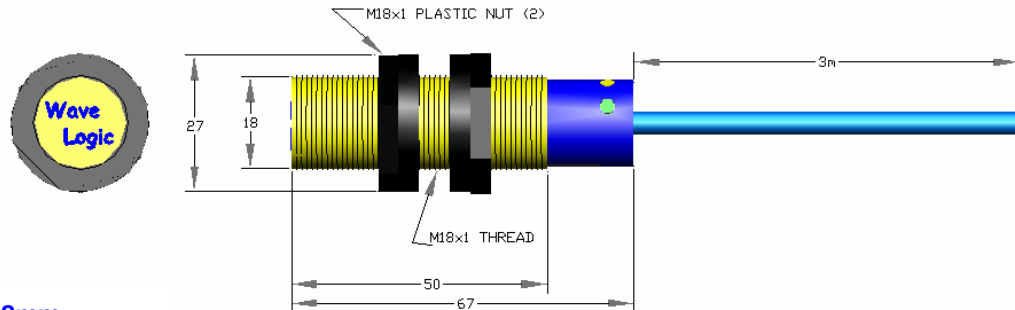
# Wave Logic



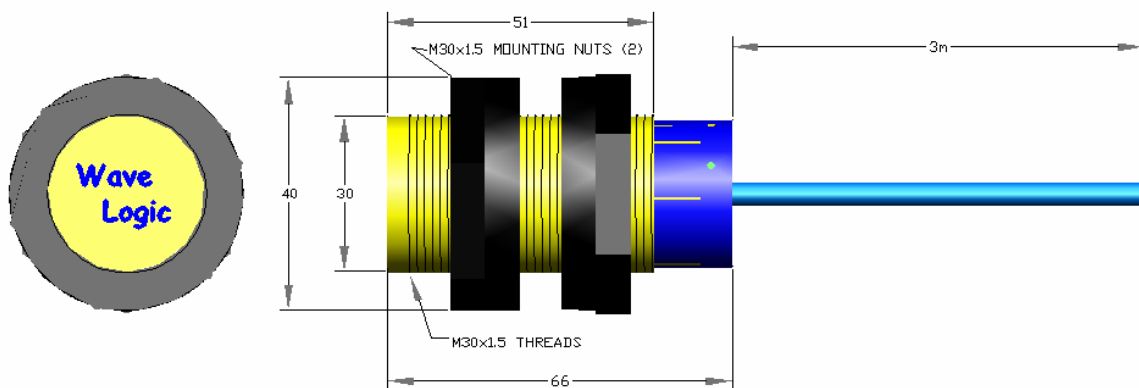
## Specifications

<p><b>Tag Protocols:</b></p> <ul style="list-style-type: none"> <li>• ISO15693</li> <li>• ISO18000-3</li> <li>• Tag-It</li> <li>• ISO14443A/B (pending)</li> </ul> <p><b>RF Data Rates:</b></p> <ul style="list-style-type: none"> <li>• ISO15693: 26.48kbs</li> <li>• ISO14443: 106kbs, 212kbs, 424kbs, 848kbs (pending)</li> </ul>	<p><b>Read/write Distance:</b></p> <ul style="list-style-type: none"> <li>• TW18 = 30mm</li> <li>• TW30 = 50mm (with 25mm dia. ISO15693 tag)</li> </ul> <p><b>Serial Interface</b></p> <ul style="list-style-type: none"> <li>• USB 2.0 (RS232 &amp; RS485 also available)</li> </ul> <p><b>Serial Communication:</b></p> <ul style="list-style-type: none"> <li>• USB up to 115k baud</li> <li>• RS232 up to 115k baud</li> <li>• RS485 up to 115k baud</li> </ul>	<p><b>*Certifications:</b></p> <p><i>Certification Pending</i></p> <p><b>Dimensions:</b></p> <ul style="list-style-type: none"> <li>• See drawings</li> </ul> <p><b>Weight:</b></p> <ul style="list-style-type: none"> <li>• TW18 = 130g</li> <li>• TW30 = 160g</li> </ul> <p>*</p>	<p><b>Electrical:</b></p> <ul style="list-style-type: none"> <li>• 5Vdc, 200mA (1W)</li> </ul> <p><b>Ingress protection:</b></p> <ul style="list-style-type: none"> <li>• IP67 Rating</li> </ul> <p><b>Shock &amp; Vibration:</b></p> <ul style="list-style-type: none"> <li>• IEC 68-2-6 Test FC 1.5mm, 10 to 55Hz: 2 Hours each Axis</li> <li>• IEC 66-2-27 Test EA 30g; 11msec: 3 Shocks per Axis</li> </ul> <p><b>Temperature:</b></p> <ul style="list-style-type: none"> <li>• Operating: -10° to +50° C</li> <li>• Storage: -20° to +70° C</li> </ul>
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## Dimensions



**TW18 - 18mm  
TUBULAR WAVE™**



**TW30 - 30mm  
TUBULAR WAVE™**

All dimensions are in mm.