# **IR Distance (IRD)** (Proximity) 4 - 30CM (Response Time Max: 50ms) Smart Box

**Product Codes: IRPrSB1052**

The IR Distance Smart Box is designed for the measuring of distances from 4 to 30 cm.



| Sensor Specifications | |
|---|---|
| Measurement Type | Reflected IR Light |
| Operating Temperature | -10 to +60°C |
| Storage Temperature | -10 to +60°C |
| Measurement Range | 40 mm to 300 mm |
| Response Time, (Sensitivity) | 50 ms |
| Repeatability | N/A |
| Accuracy | N/A |
| Life Expectancy | N/A |
| Sensor Type | Infra Red |
| Sensor Cable Length | 0.5m |
| Certified | No |

| Smart Box Specifications | |
|---|---|
| Operating Temperature | -40˚C to +85˚C |
| Storage Temperature | -40 to 105°C |
| Air Data Rate | 250 kb per second |
| Channels | 16 (IEE 802.15.4 channels 11-26) |
| Hardware Supported Encryption | AES128 |
| Analogue Digital Resolution | Up to 12 bits |
| Sample time for 12 bit conversion | 680µs |


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| Antenna Options (Range) | | Code |
|---|---|---|
| Internal | (60m) | i |
| Large | (700m) | L |
| Right-Angle | (300m) | R |
| Small Stub | (300m) | S |

| Power Supply Option |
|---|
| Standard PSU mains |
| Water Resistant PSU mains |
| Battery 9V (Replaceable) |
| Battery (Rechargeable) |
| Solar & Battery (Rechargeable) |

| Smart Box Housing | IP Rating |
|---|---|
| Indoor | IP50 |
| Outdoor Splash proof | IP51 |
| Outdoor - water jet | IP65 |
| Outdoor - Immersion | Contact Us |
| Outdoor Explosion Proof | Contact Us |