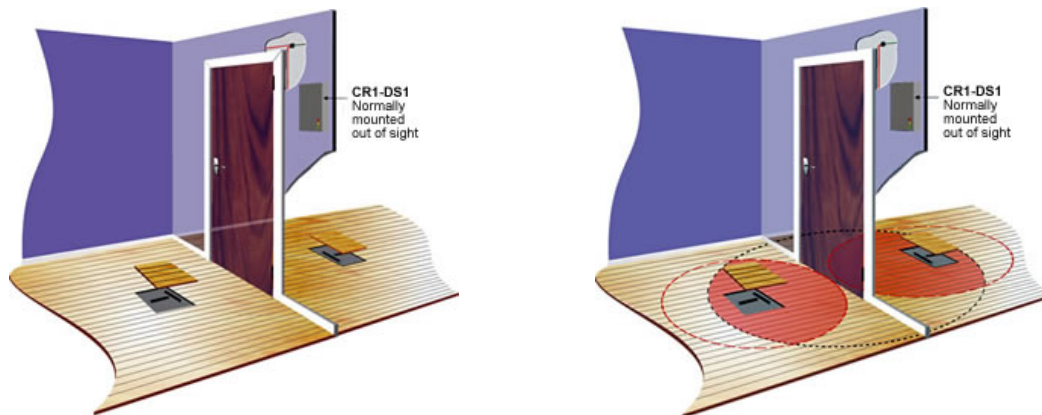


# Cryptag<sup>®</sup> Census<sup>®</sup>

## CR1-DS1 -Split Transmitter and Receiver (Direction Sensing)



### Features

- Hands Free Operation (up to 3.0 metres range in noisy environments);
- Direction Sensing;
- Single External Loop Aerial + Direction Sensing Receiver Pods;
- Tag Battery Low Indication;
- Fast Multiple Tag Reading (max 55/sec.);
- Secure Data Exchange;
- Reverse Polarity Protection;
- 1:100 Million Error Rate;
- Wiegand or Clock & Data & Serial Output;
- CE, DTI & FCC Approved.

### Details

The CR1-DS1 reader has split transmit and receive functions to enable direction sensing. The CR1-DS1 reader utilises a single external loop aerial and a minimum of two strategically placed receiver pods to enable direction sensing at ranges of up to 3 metres. The CR1-DS1 is used in preference to the CR1-DS in noisy environments, or where adequate loop separation is impossible. It is compatible with all Cryptag Census tags. The radio-frequency communications are scrambled to provide high integrity, and prevent simulated tokens being used.

The CR1-DS1 reader interrogates the detection zone of each pod in turn for the presence of tags (i.e. multiplexing). A tag moving from one receiver pod detection zone to another will indicate the direction of travel. The speed of reading tags is effectively halved by this mechanism.

The CR1-DS1 reader can be used with a single receiver pod as an enhanced CR1 reader in those circumstances where the CR1 (with external loop) must be installed where there are significant and unavoidable noise signals. The geometric positioning of the pod can minimise noise pickup. The unit can also be used to change the shape of the detection zone.

The receiver pods for CR1-DS1 are SL4 (internal use) and SL5 (outdoor use).

All CR1 readers provide Wiegand or Clock & Data, as well as RS232 output. Advanced features include local alarm outputs, print option and an optional counter display (See IDN1, EDN1 for further information.).

## Specification

Specification	Details	SL4
Power requirements	12-26 Volts DC @ 500mA	
Dimensions	300 x 230 x 80mm	185 x 20 mm tube
Weight	1.4kg	450g
Temperature range	-20 to +60°C (non condensing)	-20 to +60°C (non condensing)
Housing	Charcoal Grey ABS case	White Plastic
LED function	RED internally/externally controlled AMBER internally/externally controlled GREEN internally/externally controlled Noise indication, Data Sent Indication	
Relays	2 x internally controlled relays	
Output Formats	2 x Wiegand or Clock & Data & RS232	
Terminations	2.5mm removable connectors	

## Order Information

Ordered as **CR1-DS1** (**CR1A-DS1** - USA system). See Product Review for firmware options

## Applications

The product is suitable for numerous applications, they include but are not limited to:

- Direction Sensing;
- Time and Attendance;
- Hands Free Access Control;
- Personnel Identification;
- Article Identification.

*Product specifications are subject to change. Identec reserve the right to modify the design without notice. If any specification is critical to product selection please confirm its availability prior to ordering. E & OE.*

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