### Description
This digital input module is a multi-purpose flexible device that covers the most common digital input signal types. Two versions exist. The RDi-32xe has dry contacts and RDi-32Axe is used for active signals, 24VDC and AC (50 – 70Hz).

The module requires 24VDC input power and provides over redundant CAN Open 4.0 high speed field bus, sensor data processed and time stamped.

### Functions
- 32 digital input channels with LED status indicators
- Alarm block
- Trend
- Time stamping
- Self checking
- Sensor excitation power overload
- CAN net status, error handling

### Features
- All parameters stored in the module
- Remote configuration
- No trimmers or jumpers
- No serviceable parts inside module
- All connections are pluggable
- Suitable for direct installation on the main engine
- Module includes status LED’s for: Watchdog, running, general information, initialized module and power polarity
Technical Specifications

Supply voltage
• 18 - 32 VDC

Power consumption
• 16W for RDi-32xe (With all inputs active)
• 8W for RDi-32Axe (With all inputs active)

Operating temperature
• –15°C to +70°C

Storage temperature
• -25°C to +70°C

Max rel. humidity
• 96% non-condensing

IP Code
• IP20

ENV properties
• IACS E10
• IEC 60945

Vibration
• 4 G

Weight of unit
• 1.8 kg

Mounting
• Screws (4 pcs M5)

Connections, pluggable screw terminals
• I/O 2 terminals 2.5 mm²
• Power 4 terminals 2.5 mm²
• CAN bus 4 terminals 2.5 mm²

Signal types
• ON / OFF, normally open, normally closed.

Specification:
• RDi-32xe: Dry contact (switching level approx 1.5 mA)
• RDi-32Axe: Active signal 24 VDC or AC (50-70 Hz)

Sensor exitation voltage and current:
• Only for RDi-32xe, 8 mA @ 24VDC nominal.

Communication interfaces
• 2 CAN ports for communication with host.

Isolation
RDi-32xe
• Power: Isolated/floating from module chassis.
• Input: Supplied from 24 VDC module supply.
• CAN: Individually isolated

RDi-32Axe
• Power: Isolated/floating from module chassis.
• Input: Channels individually isolated (opto coupler)
• CAN: Individually isolated

BIST (Built In Self Test)
• Module temperature, power and sensor exitation overload.

Type approval
• DNV, LRS, BV, GL, RINA, NK, ABS, KR, RMR, CCS
  (allows direct mounting on engines, compressors, etc. in suitable cabinets)

Part number
RDi-32xe
• 333523
RDi-32Axe
• 333824

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