ARDEA

mod. S/2 2P100

ARDEA S2 **is the line smoke detector (Tx-Rx)** based on readings of its own modulation due to the start of a fire under different conditions.

ARDEA S2 requires the **interface INT8BA** to connect to the fire detection control units, whether analogical or conventional.

ARDEA S2 is particularly well suited to the detection of fires in:

- industrial sheds
- pallet-stacked warehouses
- traditional warehouses
- supermarkets and megastores
- public buildings with flows of people
- railway stations and airports
- gyms
- sports centres
- exhibition centres
- logistics sheds
- greenhouses
- public transport depots
- any other large civic and industrial buildings of any shape and size

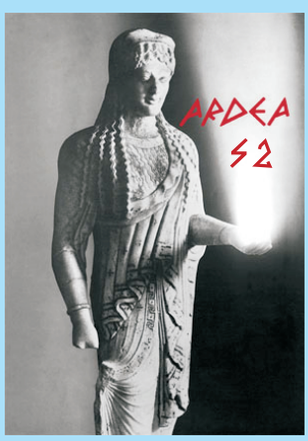
ARDEA S2 requires the optical filter STF4 for a check on correct calibration, simulating the presence of smoke in the environment under surveillance.

Basic characteristics

- ✓ **A transmitter unit and a receiver unit**
- ✓ **Very easy to install and set**
- ✓ **Very low installation and maintenance costs**
- ✓ **The unit can be directed horizontally and vertically for any working angle**
- ✓ **Operating distance up to 200m with the maximum area admitted by the standard TS EN 54-14 of up to 1,600 m² per system**
- ✓ **Power supply 24V DC**
- ✓ **Anodized black aluminum casing**

Characteristics of the product

- ✓ **EN 54/12 and VdS Standard**
- ✓ **CE according to CPD**
- ✓ **EMC tested at 30 V/m**
- ✓ **RoHS compatible**
- ✓ **Angular misalignment: 1 degrees max on maximum distance**
- ✓ **Fine calibration threshold adjustment**
- ✓ **Vertical installation possible**
- ✓ **Complete stability over time of the set direction**
- ✓ **Sensitivity thresholds continuously selectable over a wide range**
- ✓ **Automatic instant reset of working if the infrared beam is interrupted**
- ✓ **Adjustment of smoke sensitivity managed by control instruments**
- ✓ **Fault delay settings from dazzling up to 90 sec.**
- ✓ **Receiver unit, Transmitter unit, brackets, connection cables, interface and manual in single packaging**



TECHNICAL CHARACTERISTICS

ARDEA S2

The current absorption is for the ARDEA units (Transmitter and Receiver) and the interface INT8BA

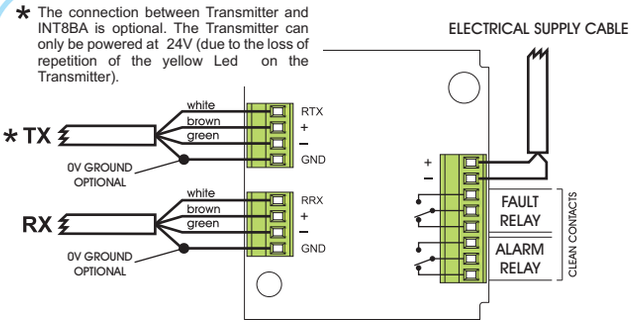
Distance (m)	Typical (mA) (Fault relay normally de-energized)	Typical (mA) (Fault relay normally energized)
5 ≤ 50	81	90
51 ≤ 100	90	98

Distance (m)	Typical (mA) (Fault relay normally de-energized)	Typical (mA) (Fault relay normally energized)
101 ≤ 150	110	120
151 ≤ 200	110	120

Working temperature	- 20° C / + 55° C
Electromagnetic interference	EMC ≤ 25 Volt/m from1MHz to 2.2 GHz
Power supply	24V
Maximum cable lengths	1000m cable IEC 20-22 3 X 0,5 mm² + shield
Maximum cover	Up to 1600 m² according to T.S. European EN 54-14
Width of cover	Up to 15 m according to T.S. European EN 54-14
Operating distance	from 5 to 200 m
Detector protection	IP44
Connector protection	IP55
Acid attack	HB9
Salt attack	high resistance

WIRING DIAGRAM

* The connection between Transmitter and INT8BA is optional. The Transmitter can only be powered at 24V (due to the loss of repetition of the yellow Led on the Transmitter).



WEIGHT (Kg)

Receiver unit	1,380
Transmitter unit	1,190
Interface in box (INT8C)	0,200
Interface without box (INT8N)	0,065
Single bracket	0,470
Basic supply kit	**3,500**

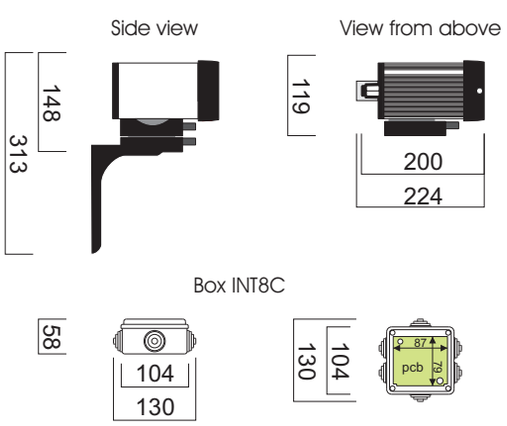
MATERIALS

Brackets made from cast coated aluminum
Container made from extruded anodized aluminum
Box INT8C technopolymer

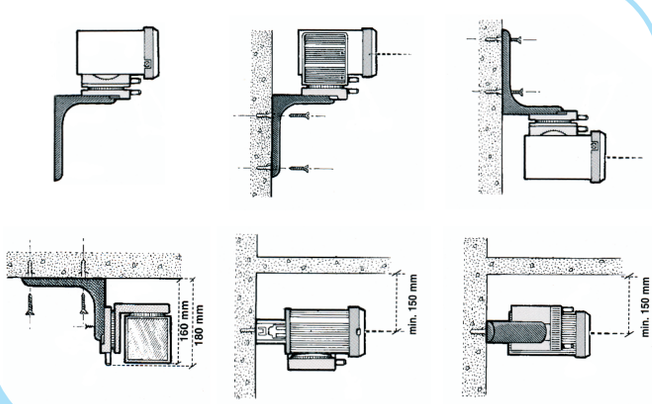
INT8BA INTERFACE

The interface that is necessary in order to obtain closed or open contacts for fire or fault alarms must be supply with 24V DC. It is available in the INT8C version (in an IP55 rated box) or as INT8N (without box).

SIZE (mm)



EXAMPLES OF USE



CERTIFICATIONS

VdS n° G294043

CE 0786-CPD-20215

n° 001794

CSE n° 3409/44

VWA n° 204/1410.3

VdÖ EL 14/12/93-24

SETRONIC VERONA

TÜV SÜD ISO 9001 Azienda Certificata ISO 9001

+39 045 8347777 +39 0458347778

www.setronicverona.com