ARDEA

mod. SF 2P100

ARDEA SF **is the line detector (Transmitter-Receiver) that combines smoke detection with fire detection** through its modulation of the start of a fire under different conditions.

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

ARDEA SF is particularly suited to fire detection in the following environments:

- industrial sheds
- pallet-stacked warehouses
- traditional warehouses
- garages
- hangars
- cables and energy supply ducts
- railway stations
- underground rail stations
- agricultural depots
- any other large industrial space that requires double detection

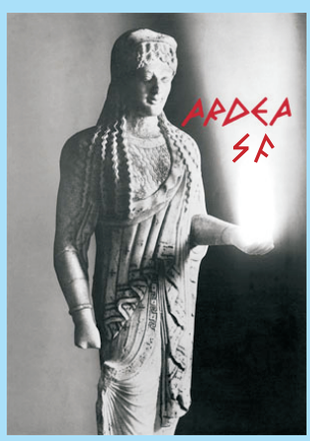
ARDEA SF requires the optical filter STF4 for a check on correct calibration, simulating the presence of smoke and/or fire in the environment under surveillance.

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**
- ✓ **Container in anodized aluminum**

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 SF

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

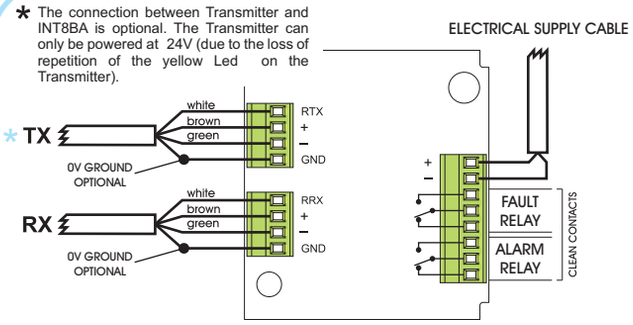
Distance (m)	Typical (mA) (Fault relay normally de-energized)	Typical (mA) (Fault relay normally energized)
5 ≤ 50	97	106
51 ≤ 100	105	112

Distance (m)	Typical (mA) (Fault relay normally de-energized)	Typical (mA) (Fault relay normally energized)
101 ≤ 150	120	130
151 ≤ 200	120	130

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	1,420
Transmitter unit	1,230
Interface in box (INT8C)	0,200
Interface without box (INT8N)	0,065
Single bracket	0,470
Basic supply kit	**3,600**

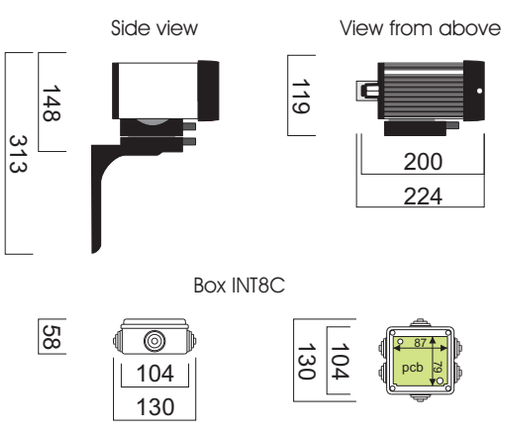
MATERIALS

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

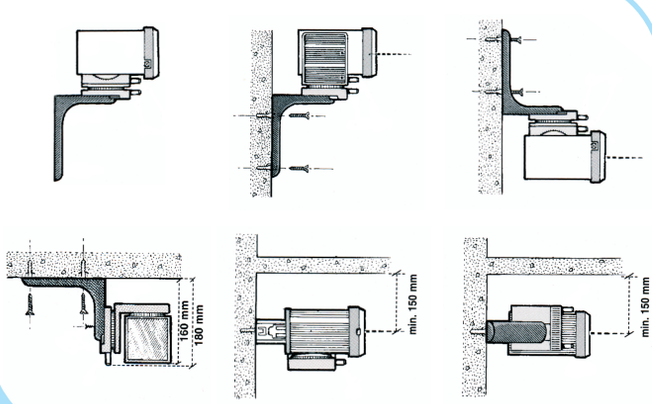
INT8BA INTERFACE

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

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