

METAL DETECTOR

DET**SCOPE**

The **DET** metal detectors can be used on any conveyor belt, regardless of the layer height and bulk product handled. They detect the presence of ferrous and non-ferrous metals (sphere 25 mm).

They are recommended for :

- the protection of an installation against metal elements ;
- the control of pureness.

TECHNICAL DESCRIPTION

The **DETs** generate a pulsating primary magnetic field by the emitting coils. The induced eddy currents are permanently controlled by the receiving coils. When this field is altered, it indicates the presence of a ferrous or non-ferrous metal element, regardless of the handled product's characteristics (moisture content, granular size, magnetism, density).

They consist of the following components :

- a frame, made of a resistant and non-conductor composite ;
- coils resistant to shocks and impacts. The receiving coils are doubled to compensate for electromagnetic interferences (electric motors, radio transmitters, etc.) ;
- a generator ;
- an **ORETRONIC** control and calculation unit, built around a high-capacity

microprocessor, installed in sealed case (IP55) with ergonomically designed display.

INSTALLATION MODALITIES

The **DETs** are installed on the conveyor belt's structure without requiring **any changes** or actions on the conveyor belt. After installation, the **ORETRONIC unit is calibrated**.

SPÉCIFICATIONS

Performances vary according to various parameters :

- characteristics of the products to be handled ;
- characteristics of the metal elements to be detected ;
- conveyor belt speed.

10 DET models are offered according to the conveyor belt standard :

**400, 500, 650, 800, 1000, 1200,
1400, 1600, 1800, 2000 mm.**

ADDED FEATURES

The **DET** incorporated microprocessor allows programming the **DET** for a specific selected usage :

- automatic static calibration ;
- **adjustable selection** ;
- positive detection, independently from the conveyor belt load or the type of products ;
- digital signal processing ;
- continuous automatic zero ;

- **retrieval** when passing over staples and other listed magnetic elements ;
- swiveling upper coil protected against shocks ;
- mounting without removal of conveyor belt ;
- **anticorrosion** and non-magnetic support frame



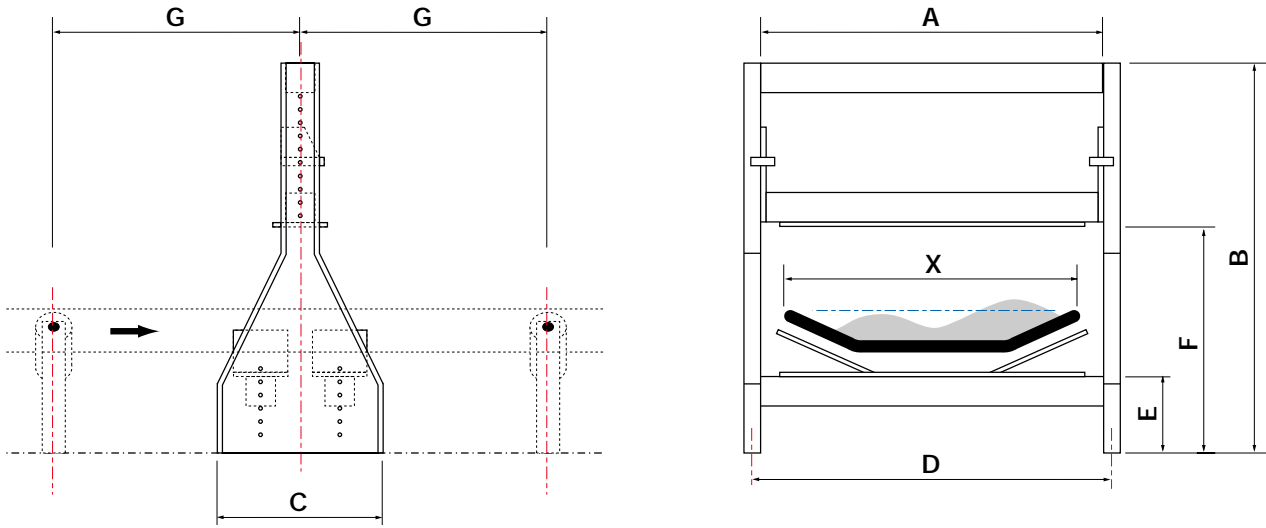
ORETRONIC II

USAGE MODE

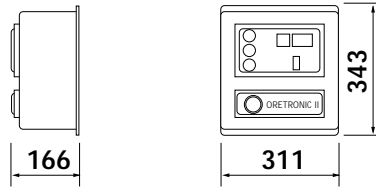
No required servicing or maintenance of the magnetic part.
Coils must be periodically checked for cleanliness.

TECHNICAL DATA

DET



ORETRONIC II
 Voltage : 230 V
 Frequency : 50 Hz
 Required power rating : 30 VA



TYPE	Weight DET Kg	ORETRONIC cabinet type	Dimensions (mm)							Convoyer belt (mm) X
			A	B	C	D	E	F	G	
DET 40	49	II	580	1375	600	650	125 à 315	443 à 900	≥ 800	400
DET 50	52	-	680	-	-	750	-	-	-	500
DET 65	65	-	830	-	-	900	-	-	-	650
DET 80	69	-	1030	-	-	1100	-	-	-	800
DET 100	83	-	1230	-	-	1300	-	-	-	1000
DET 120	90	-	1480	-	-	1550	-	-	-	1200
DET 140	111	-	1680	-	-	1750	-	-	-	1400
DET 160	120	-	1880	-	-	1950	-	-	-	1600
DET 180	130	-	2180	-	-	2250	-	-	-	1800
DET 200	145	-	2320	-	-	2450	-	-	-	2000

OPTIONS

- Special dimensions on request
- Special conveyor belt angle
- Agroindustry finish
- Contaminated areas marking system
- Audible or visual alarm
- 60 Hz frequency
- Separation flap
- Pneumatic or mechanical ejection