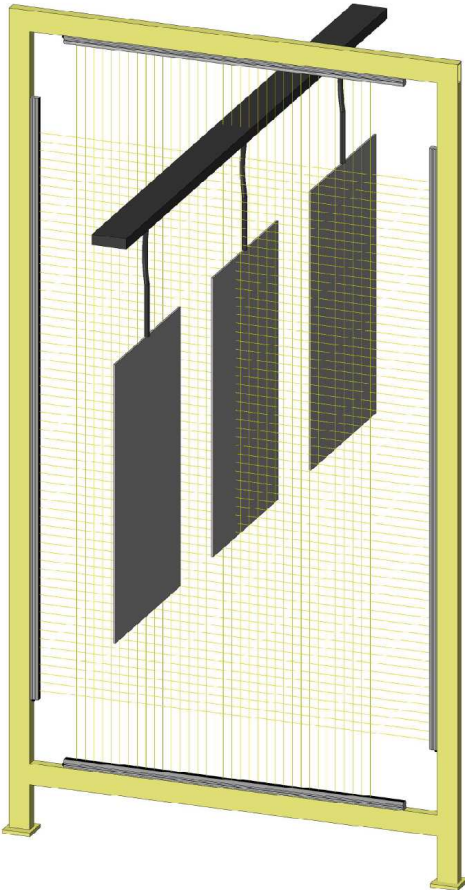


# SYSTEM OF DIMENSIONAL DETECTION

Thanks to use of the system of dimensional detection inside of the painting installation, the management of the horizontal and vertical axes (reciprocators, motorized bases) takes places in a fully automated, as well as management and shut-off of the painting guns. The vertical barriers manage the reciprocators and painting guns. The horizontal barriers manage the positioning of the motorized bases.

Provide an excellent coating quality and a considerable saving of paint.

Can be applied on both systems powder coating or thermo-hardening paints.



**System of dimensional detection RE IND:**

- **nr. 1 vertical barrier:** management reciprocators and painting guns.
- **Nr. 1 horizontal barrier:** management motorized bases.

## *TECHNICAL FEATURES*

- Aluminum body barriers, covered with dust paints.
- Barriers equipped with photodiodes in PMMA (one every 10 [mm] in length), for the reading of the length, width and depth of the part to be treated.
- Dimensions read out and monitored at every centimetre of movement of the conveyor.
- The integrated PLC to Color Center continuously processes the image data that the barriers to reading the transmit.
- Feed chain conveyor is constantly monitored by a synchronous Encoder, mounted on the driving wheel of the conveyor.
- By varying the forward speed of the chain during operation, will also vary the number of pulses of the barriers, to ensure at the machines the execution of the various displacements appropriately.
- In a complete automation RE IND (for example: reciprocators + motorized bases + color center + system of dimensional detection) the vertical barriers manage the reciprocators and the guns.
- In a complete automation RE IND (for example: reciprocators + motorized bases + color center + system of dimensional detection) the horizontal barriers manage the positioning of the motorized bases.

MODEL	SYSTEM OF DIMENSIONAL DETECTION
POWER SUPPLY VOLTAGE	24 [VCC] ± 20%
ABSORPTION UNIT [mA]	MAX 250
OUTPUT CURRENT [mA]	100 (short-circuit protection)
OUTPUT VOLTAGE	-1,5 Vmax of the power supply voltage at T=77 °F
TYPE OF EMISSION	Infrared
RESOLUTION [mm]	7 ÷ 25
PRECISION IN ABSOLUTE [mm]	± 6 ÷ ± 22,5
OPERATING DISTANCE [m]	0,3 ÷ 10
OPERATING TEMPERATURE	32 ÷ 122 °F
CLASS OF PROTECTION	IP65