



DETECTOR FOR HOT-MELT ADHESIVES CIA GLUE DETECTOR

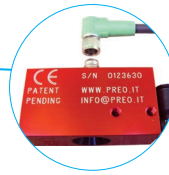


The glue detector Series CIA was especially designed and manufactured to check high-speed gluing lines. The system analyses each single drop of glue (using the passive infrared method), verifying continuity and signalling any anomaly in real time. Easy to be installed, it perfectly fits into any existing gluing system of any brand, as it is a completely independent device, able to reduce production rejects to virtually zero.



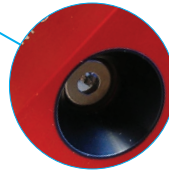
OPTICAL MEASUREMENT HEAD

The measurement head is provided with an automatic sighting system to ensure maximum versatility and the reduction of production rejects to "zero".



SELF-CLEANING MEASUREMENT HEAD

The measurement head is supplied with an air-operated self-cleaning system serving the purpose of eliminating any maintenance need even in a very dusty environment. It is connected to the control unit by means of quick-coupling connectors for easier installation.



GLUE DETECTOR

An innovative detector analyses in real time the infrared rays emitted by the glue, if present, with a measuring time less than one thousandth of a second.

CIA CONTROL UNIT

The CIA digital control unit controls up to 2 optical measurement heads in a fully independent way and across all their functions, ensuring a much greater reliability than standard applications thanks to its innovative electronics.



CONNECTIONS

A terminal board with a quick-coupling connector on the back of the unit is used to connect all the signals required for the system to operate properly.



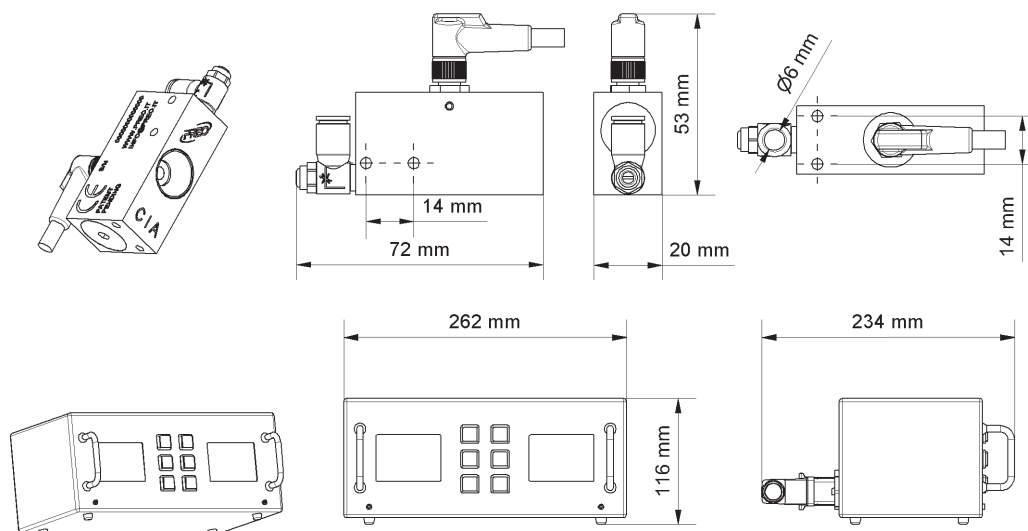
MICROPROCESSOR

A microprocessor fully automatically controls (even on lines with a varying speed) the synchronism between readings, glue distribution and alarm signals, based on the encoder of the machine and/or the built-in quartz chronometer.

SOFTWARE

Signals in real time any anomaly and provides a diversified control of the alarms both in real time and in relation to percentages. A practical piececounting function is part of the system.

DATA SHEET



GENERAL SPECIFICATIONS

HEAD WEIGHT	100 g
HEAD MATERIAL	red anodised aluminium
HEAD FIXING	8 M4 holes
MAX CONNECTING CABLE LENGTH	5 m
CONTROL UNIT WEIGHT	2 kg
CONTROL UNIT MATERIAL	sheet iron with epoxy paint
CONTROL UNIT FIXING	4 M6 holes
PROTECTION	IP20 – IP65

ELECTRICAL REQUIREMENTS

VOLTAGE	1/N/PE AC 230 V \pm 10% 50/60 Hz, 1/N/PE AC 115 V \pm 10% 50/60 Hz (on request)
MAXIMUM POWER INPUT	20 Watt
LOW-VOLTAGE DC SUPPLY	24 VDC – max 1 A
HEAD POWER SUPPLY	5 VDC – 10 mA

PNEUMATIC SPECIFICATIONS

COMPRESSED AIR JOINT	quick-coupling joint for hose \varnothing 6 mm
COMPRESSED AIR CONSUMPTION	2 \div 10 l/min – 1 \div 8 bar

INPUTS AND OUTPUTS

DIGITAL INPUT FOR SYNCHRONISM	1 input (12/24/48 VDC) for photocell and/or solenoid valve
INPUT INCREMENTAL ENCODER	1 input 0 \div 24 VDC PNP or NPN
OUTPUT FOR EJECTOR CONTROL	1 relay (230 V – 1 A)
OUTPUT FOR ALARM	1 relay (230 V – 1 A)

OPTICAL SPECIFICATIONS

WORKING PRINCIPLE	array of passive infrared thermopiles
MEASURED SPECTRUM	8 \div 14 μ m
SCANNING ANGLE	38°
TEMPERATURE OF THE WORKING ENVIRONMENT	0°C \div 50°C (32°F \div 122°F)
MAXIMUM SPEED OF THE LINE	no limit
MEASURABLE GLUE TEMPERATURE	70°C \div 300°C (158°F \div 572°F)
MINIMUM DETECTABLE MEASURING TIME	4 ms
RECOMMENDED DISTANCE GLUE - HEAD	40 – 150 mm

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PREO S.r.l.

Via Alessandro Volta, 7 • 20094 Corsico (MI) • Italia
tel. +39 02 48601260 • fax +39 02 4503323
www.preo.it • italia@preo.it • world@preo.it