

# TSD - Tin Surface Detector



**Glassline Model 2002 TSD** – control panel and sensing head

The Glassline Corporation Tin Surface Detector (TSD) is a compact and inexpensive electronic system to determine the tin surface of float glass. It easily mounts over any conveying line. As glass passes under the detector the top surface is identified as “Tin Side” or “Non-Tin Side” with easy to read indicator lights.

For many flat glass processing applications it is important to know which glass surface has the tin deposit – the minuscule tin deposit that remains on the under surface of float glass as the ribbon of glass passes over the molten tin during manufacturing.

Glassline TSD Systems are commonly used in:

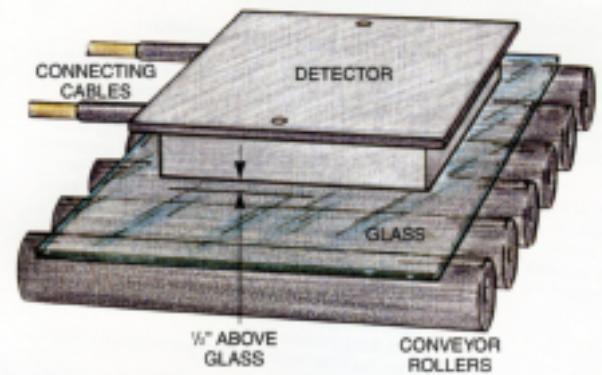
- ▶ Automotive glass fabrication
- ▶ Flat glass tempering
- ▶ Mirror manufacturing and other coated glass fabrication
- ▶ Float glass packaging processes

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## SPECIFICATIONS

Model 2002	Specifications	
Control Panel	Width	12 inches
	Height	20 inches
	Depth	5 inches
Sensing Head	Weight	28 lbs.
	Width	7-1/2 Inches
	Length	9-1/4 inches
Total Equipment	Depth	2 inches
	Weight	4 lbs
	Gross Weight	32 lbs
Voltage	NEMA 12-110 VAC 60 HZ available	



*Sensing Head (detector unit) mounted over glass conveying system.*

## KEY FEATURES:

- ▶ Inspection lamps automatically shut off two seconds after inspection of last glass is complete - increasing life of the UV filter
- ▶ Three adjustable preset thresholds - giving user the ability to compensate for multiple tin levels in one production run
- ▶ Built-in digital meter and test switch for set-up and diagnostics
- ▶ Can be interfaced to Programmable Logic Control (PLC)
- ▶ Packaged for industrial environment - NEMA 12
  - 110 VAC 60 HZ standard (220 VAC 50 HZ model available)
- ▶ Control panel mounting brackets - 7" on center x 21" height
- ▶ RS232/422 port to address and program parameters including:
  - Lamp and First Use warm-up times, First Use timer, Ambient Light Warning set point, Data Transfer of Tin Side readings in real time
- ▶ Eight inputs provided to allow for select set point reference mode
- ▶ Eight outputs provide binary number of measured value – Tin Side or Non-Tin Side decision made on the fly from past set-up files
- ▶ On-board selector switch enables I/O for remote operation
- ▶ Backwards compatible (new model can be set up to act like former model)

## GLASSLINE

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