Electro-Hydraulic Controls

Designed and Manufactured by DITCO

IR102 Infrared Temperature Sensor

- **Easy to Mount**
  … mounts to exterior of cab, side mirror
- **Durable Design**
  … sealed anodized housing and stainless steel brackets
- **Fast Response time**
  … quickly measures variations in temperature
- **Wide Sensing Range**
  … measures temperatures -70°C to 380°C for several possible applications

The **IR102** is a rugged, infrared sensor for non-contact temperature sensing. This simple point-and-shoot device is pre-calibrated and easy to use. The emitted infrared energy is focused through a Fresnel lens and onto an IR receiver. The IR102 sends the infrared temperature reading, as well as ambient temperature, to a remote display unit (ST100) or compatible spreader control.

There are numerous applications where a non-contact temperature approach is required: Road Surface for snow and ice control; Manufacturing Processes; Agriculture; Frost-Sensing; Quality Control; and many others.

Specifications:

- Supply voltage: +10 - 32 VDC
- Operating Temperature: -40°C to +85°C
- Output: PWM signal, 0 - 5 VDC, current sinking
- Temperature sensing span: -70°C to +350°C
- View angle: 20 degrees, 4" spot diameter with each foot of range; Fresnel lens focuses the infrared energy
- Enclosure: Anodized aluminum, 3 sections with O-rings between each; recessed lens to keep dirt out; stainless-steel brackets with U-bolts for secure mounting.

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Application Examples:

Agriculture
- Livestock/poultry monitor
- Crop canopy/hydration/harvest monitor
- Frost alert

Recreation
- Hot pavement alert

Transportation
- Ice warning/detection

Food
- baking, candy-chocolate processing, canning, freezing, frying, mixing, packing, roasting

Glass
- drawing, manufacturing/processing bulbs, containers, annealing

Metals (ferrous and nonferrous)
- annealing, billet extrusion, brazing, carbonizing, casting, forging, heat treating, inductive heating, rolling/strip mills, sintering, smelting

Quality control
- printed circuit boards, soldering, universal joints, welding, metrology

Paint
- curing, drying

Paper
- coating, ink drying, printing
- photographic emulsions, web profiles

Plastic
- blow-molding, RIM, film extrusion,
- sheet thermoforming, casting

Remote sensing
- clouds, earth surfaces, lakes, rivers, roads, volcanic surveys

Rubber
- calendering, casting, molding, profile extrusion
- tires, latex gloves

Silicon
- crystal growing, strand/fiber, wafer annealing, epitaxial deposition

Textile
- curing, drying, fibers, spinning

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