



Active Thermocouple Protection

## Lower Cost of Ownership

ATP provides effective protection against Common Mode Leakage, the leading cause of thermocouple failure (60% incidence)

- *Helps prevent the loss of a T/C from causing a control module failure (at \$200 – \$500 per zone) and possible mainframe damage.*
- *Protects against running with one or more drops inoperable with resulting lost production.*

## Technical Description

ATP is a “non-powered” circuit, specially designed for hot runner applications.

ATP utilizes a resettable PTC (Positive Temperature Coefficient) device. PTC opens the T/C input connections temporarily when there is leakage current present. This helps protect the T/C junction and the control input circuits from failing.

ATP is also equipped with a specialized protection device that turns excessive “noise” and leakage current into heat, primarily employed during short duration pulses present in all industrial applications. This device eliminates any noise present – providing the controller with a clean, accurate signal – and assists the PTC to protect against leakage current.

### All SmartMold Boxes come standard with:

- 0.75” standoffs, 1/4 -20 hex head screws and lock washers for mounting boxes onto hot half.
- Wiring diagram / pin allocations
- All boxes represent a standard size of 10.38”L x 3.68”W x 4.00”H

### Current ratings:

- All Standard Fast Heat connector mold boxes are rated for **20 amps** per zone maximum.
- All DME standard mold boxes are rated at **15 amps** per zone maximum.

### Warranty:

- 2 years parts and labor.
- Contact points and fuse protection is not covered

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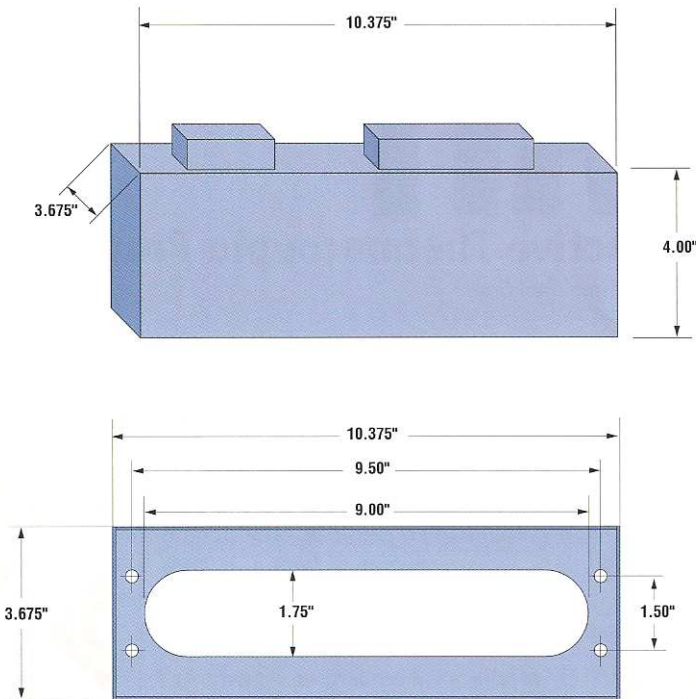
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## SmartMold Box Series and ATP Option

Model#	Type	Zone	Description
KJ030000	Fast Heat	5	SmartMold Box, Fast Heat standard 5 zone connectors
KJ030001	Fast Heat	5	SmartMold Box, Fast Heat standard 5 zone connectors with ATP option
KJ030002	Fast Heat	12	SmartMold Box, Fast Heat standard 12 zone connectors
KJ030003	Fast Heat	12	SmartMold Box, Fast Heat standard 12 zone connectors with ATP option
KJ030004	DME	5	SmartMold Box, DME standard 5 zone connectors
KJ030005	DME	5	SmartMold Box, DME standard 5 zone connectors with ATP option
KJ030006	DME	8	SmartMold Box, DME standard 8 zone connectors
KJ030007	DME	8	SmartMold Box, DME standard 8 zone connectors with ATP option
KJ030008	DME	12	SmartMold Box, DME standard 12 zone connectors
KJ030009	DME	12	SmartMold Box, DME standard 12 zone connectors with ATP option