

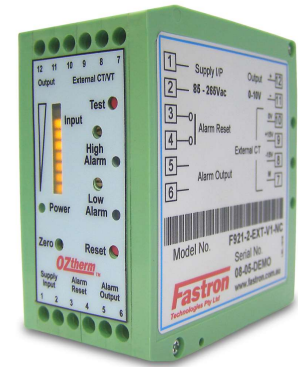
# F921 – Current Transducer Module with trip and process outputs



Isolated measurement of AC or DC currents using an on-board or external Hall effect transducer.

The module incorporates an integrated input level display and power supply.

Choice of standard process level outputs and user adjustable upper and lower alarm trip points with or without latching alarm.



## Electrical Data

|                            |   |   |
|----------------------------|---|---|
| <b>I<sub>measure</sub></b> | Current measuring range                 | 100mA to 400A ac/dc                             |
| <b>Output</b>              | Conditioned signal (AC: 400ms DC: 10mS) | 0 - 5V, 0 - 10V<br>0 – 20mA, 4 - 20mA           |
|                            | Zero adjustment range                   | ±10%  |
|                            | Over-range                              | +20%  |
| <b>I<sub>in</sub></b>      | Supply current (maximum)                | 150mA <sub>DC</sub>                             |
| <b>V<sub>in</sub></b>      | Operating voltage                       | 9 - 36V <sub>DC</sub> or 18 - 72V <sub>DC</sub> |
| <b>VL/IL</b>               | Relay Output                            | 30Vdc at 4A<br>250Vac at 0.5A                   |
|                            | Solid State Contactor Output            | 60Vac at 2A<br>40Vdc at 2A                      |

## Accuracy

|          |                  |        |
|----------|------------------|--------|
| <b>X</b> | Accuracy @ 25°C  | <±1%   |
| <b>E</b> | Linearity        | <0.15% |
| <b>f</b> | Bandwidth (-3dB) | 1kHz   |

## Environment

|                      |                             |              |
|----------------------|-----------------------------|--------------|
| <b>T<sub>A</sub></b> | Operating temperature Range | -10 to +70°C |
| <b>M</b>             | Mass                        | 200gms       |

## Mechanical Details

|                 |                       |
|-----------------|-----------------------|
| <b>Rating</b>   | IP40                  |
| <b>Size</b>     | 79(H) x 40(W) x 85(D) |
| <b>Material</b> | Polyamide             |

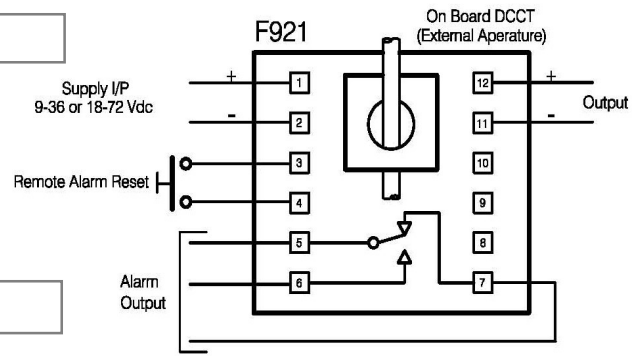
## Features

- Wide measurement range available
- Choice of standard outputs
- Choice of wide range isolated DC input supply
- DIN Rail mounting
- Choice of average sensing AC or DC outputs
- On board bar graph display
- User adjustable zero offset and span controls
- Zero insertion loss in current measurement path
- Adjustable upper and lower trip points
- Choice of local or remote alarm resets
- Earth Leakage Detection
- Fast Response (10mS) available for DC models

## Applications

- Process control
- Transportation
- Petrochemical
- Industrial
- Energy
- Automation
- Earth/Ground Fault

## Installation



## Ordering

|      |   |    |      |    |   |     |
|------|---|----|------|----|---|-----|
| F921 | A | 01 | 20AC | V1 | N | C/O |
|------|---|----|------|----|---|-----|

### Alarm Relay

C/O, NO, NC Relay Type

S = Solid State Contactor

L = Latched Alarm (Default High/Low Limit)

N = Non Latched Alarm (Default High/Low Limit)

LH = Latched Alarm (High Limit)

NH = Non Latched Alarm (High Limit)

LL = Latched Alarm (Low Limit)

NL = Non Latched Alarm (Low Limit)

### Output

C1 = 4-20mA (Default Output)

C2 = 0-20mA

V1 = 0-5V

V2 = 0-10V

AC or DC Input Span Preset (Factory Locked)

| Nominal Input                 | (Output Span Range) | Sensor       |
|-------------------------------|---------------------|--------------|
| 01 = 0 ~ 100mA                | (100 ~ 200mA)       | CT 0.1-P     |
| 02 = 0 ~ 200mA                | (200 ~ 400mA)       | CT 0.3-P     |
| 03 = 0 ~ 400mA                | (400 ~ 800mA)       | CT 1-P       |
| 04 = 0 ~ 25A                  | (10 ~ 25A)          | LA 25-P      |
| 05 = 0 ~ 50A                  | (20 ~ 50A)          | LA 55-P      |
| 06 = 0 ~ 100A                 | (40 ~ 100A)         | LA 100-P     |
| 07 = 0 ~ 50A                  | (20 ~ 50A)          | HTB 50-P     |
| 08 = 0 ~ 100A                 | (40 ~ 100A)         | HTB 100-P    |
| 09 = 0 ~ 200A                 | (80 ~ 200A)         | HTB 200-P    |
| 10 = 0 ~ 300A                 | (120 ~ 300A)        | HTB 300-P    |
| 11 = 0 ~ 400A                 | (160 ~ 400A)        | HTB 400-P    |
| XX = External +/-15VDC Sensor |                     | Not Included |

### Supply I/P

A = 12/24V<sub>DC</sub> (9-36V)

B = 48V<sub>DC</sub> (18-72V)

If the functionality you require is not contained within this specification please contact Fastron Electronics, other options are continually being developed and we specialise in supplying non-standard or custom solutions. We reserve the right to change the specification without notice.

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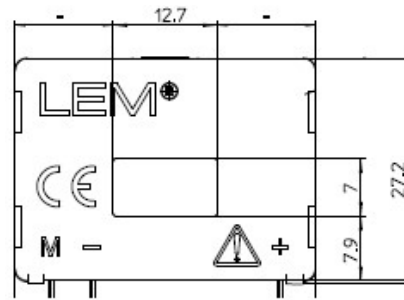
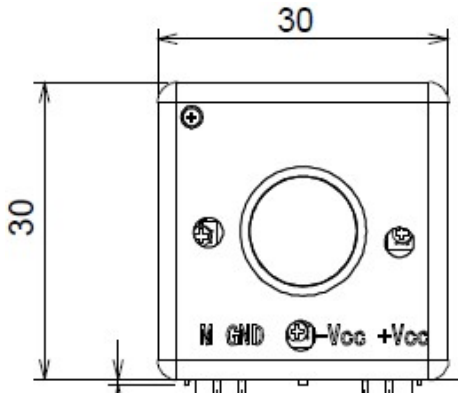
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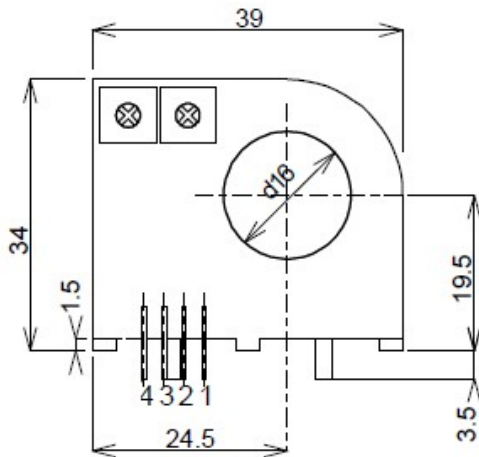
Sensor/Aperture Dimensions

CT 0.1-P, CT 0.3-P, CT 1-P

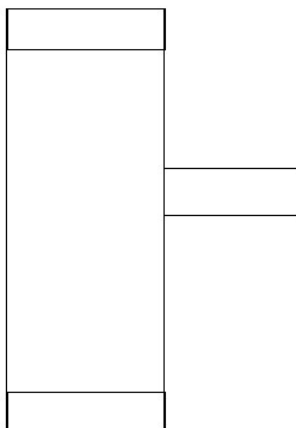
LA 25-P, LA55-P, LA 100-P



HTB 100-P, HTB 200-P, HTB 300-P, HTB 400-P



SIDE VIEW



TOP VIEW

