

## SS-FUSION-C

Counter Large Digit Display



### KEY FEATURES

- 4 or 6 digits
- 5 digit colours available
- IP66 sealed
- 316L stainless-steel enclosure
- Indoor or outdoor brightness
- Pulse signals from NPN, PNP, Contact Closure, 24V logic, 5V logic, up to 50kHz
- Viewing distances up to 110m
- AC or DC powered
- Wall or suspension mounting
- Alarm, analogue and data output options

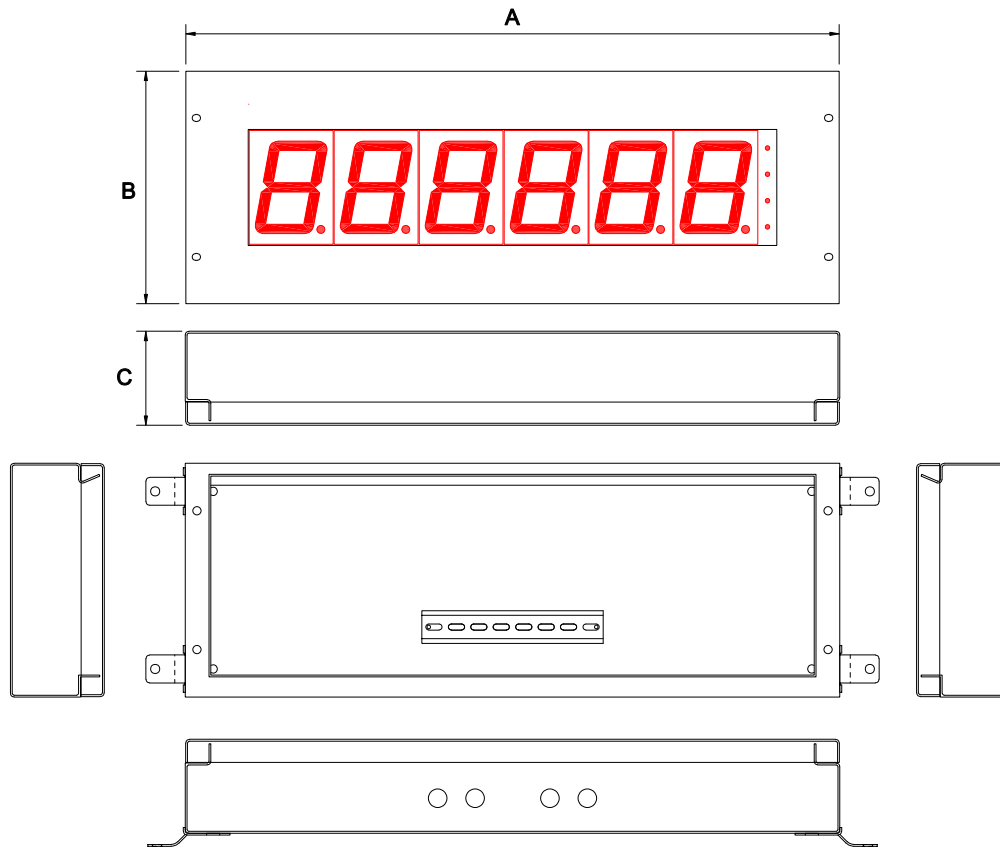
### DESCRIPTION

SS-FUSION large digit displays are primarily used for displaying numerical information which is visible from a distance. In addition, the displays have several analogue, alarm and data output options which can work with systems already in situ to control processes within that system.

The SS-FUSION-C is available as 4 or 6 digits and is ideal for use as a versatile counter, totaliser, frequency or RPM display.

## DIMENSIONAL DRAWINGS

Wall or Suspension Mounting



## DIMENSIONS (mm)

| Model    | Digit Format | Width (A) | Height (B) | Depth (C) |
|----------|--------------|-----------|------------|-----------|
| SS-F2-4N | 2" 4 digit   | 350       | 225        | 100       |
| SS-F2-6N | 2" 6 digit   | 450       | 225        | 100       |
| SS-F4-4N | 4" 4 digit   | 525       | 250        | 100       |
| SS-F4-6N | 4" 6 digit   | 700       | 250        | 100       |
| SS-F6-4N | 6" 4 digit   | 625       | 350        | 100       |
| SS-F6-6N | 6" 6 digit   | 850       | 350        | 100       |
| SS-F8-4N | 8" 4 digit   | 800       | 400        | 100       |
| SS-F8-6N | 8" 6 digit   | 1125      | 400        | 100       |

**Notes:**

- i. E & OE

## TECHNICAL DATA

|                                   |  |             |             |             |
|-----------------------------------|--|-------------|-------------|-------------|
| Digit Height (inches)             | 2.2 (SS-F2)  | 4.0 (SS-F4) | 5.9 (SS-F6) | 7.9 (SS-F8) |
| Digit Height (millimeters)        | 57   | 102         | 150         | 200         |
| Viewing Distance (feet)           | 82   | 180         | 262         | 360         |
| Viewing Distance (metres)         | 25   | 55          | 80          | 110         |
| Number of Digits                  | 4 or 6   |             |             |             |
| Digit Format                      | 8.8.8.8. or 8.8.8.8.8.8.   |             |             |             |
| Input Signal                      | NPN, PNP, Contact Closure, 24V logic, AC tachometer, 100mV passive Inductance pick up              |             |             |             |
| Accuracy                          | +/- 0.05% of range   |             |             |             |
| Excitation Voltage                | 24V @ 30mA   |             |             |             |
| Digit Colour                      | Red, green and yellow. White and blue available in 6" and 8"                                       |             |             |             |
| Brightness                        | Indoor or outdoor with 7 levels of adjustment  |             |             |             |
| Power Supply                      | 95-265V AC (standard), 11-30V DC (optional), 48V AC (optional)                                     |             |             |             |
| Power Burden                      | 40VA maximum   |             |             |             |
| Mounting                          | Brackets supplied for wall or suspension mounting  |             |             |             |
| Logic Inputs                      | 3 x NPN or contact closure for TARE, PEAK/VALLEY and RESET   |             |             |             |
| <b>Environmental</b>              |  |             |             |             |
| Enclosure Material                | 316L stainless-steel   |             |             |             |
| Lens Material                     | Polycarbonate, 6mm thick   |             |             |             |
| Sealing                           | IP66   |             |             |             |
| Storage Temperature               | -20°C to +70°C, non-condensing   |             |             |             |
| Operating Temperature             | 0°C to +50°C, non-condensing   |             |             |             |
| Connectors                        | Internal detachable screw terminal connectors accessed via compression glands                      |             |             |             |
| <b>Analogue Output (optional)</b> |  |             |             |             |
| ANB Option                        | -10 to +10V into loads >1k Ohms, resolution 0.4mV  |             |             |             |
| ANI Option                        | 0-20mA or 4-20mA into loads <500 Ohms, resolution 0.4uA  |             |             |             |
| ANV Option                        | 0-10V into loads >1k Ohms, resolution 0.2mV  |             |             |             |
| Scaling                           | Fully adjustable, direct or inverse. Can be derived from GROSS or NETT value                       |             |             |             |
| Response Speed                    | Derived from displayed value, updated x10 per second, display filtering applies to analogue output |             |             |             |
| Linearisation                     | Derived from displayed value   |             |             |             |
| Isolation                         | 250V AC optically isolated from input, logic, excitation, power, alarms and data output ports      |             |             |             |
| Accuracy                          | +/- 0.1% of range  |             |             |             |
| Linearity                         | +/- 0.02% of range   |             |             |             |
| Stability                         | +/- 50ppm/°C   |             |             |             |
| <b>Alarm Outputs (optional)</b>   |  |             |             |             |
| AL2 and AL4 Option                | 2 or 4 x SPST mechanical relays, 2A @ 250V AC, resistive load                                      |             |             |             |
| DSS and QSS Option                | 2 or 4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC             |             |             |             |
| SPCO Option                       | 2 x SPCO mechanical relays, 2A @ 250V AC, resistive load   |             |             |             |
| Response Speed                    | For mechanical relays allow 105mS, for solid state relays allow 100mS                              |             |             |             |
| <b>Data Output (optional)</b>     |  |             |             |             |
| 232 Option                        | RS232 ASCII  |             |             |             |
| 485 Option                        | RS422/RS485 ASCII + Modbus ASCII   |             |             |             |
| RTU Option                        | Modbus RTU   |             |             |             |
| Response Speed                    | Derived from displayed value, updated x10 per second, display filtering applies to data output     |             |             |             |
| Isolation                         | 250V AC optically isolated from input, logic, excitation, power, alarms and analogue output ports  |             |             |             |

## ORDERING GUIDE

|  |  |                                       |                       |            |                |            |            |            |            |            |
|--|--|---------------------------------------|-----------------------|------------|----------------|------------|------------|------------|------------|------------|
| <b>Digit Height:</b>                                 |  | <b>SS - X</b>                         | <b>- X</b>            | <b>- C</b> | <b>- X</b>     | <b>- X</b> | <b>- X</b> | <b>- X</b> | <b>- X</b> | <b>- X</b> |
| <b>F2</b> 2 inches (57mm)                            | <b>F4</b> 4 inches (102mm)                           |                                       |                       |            |                |            |            |            |            |            |
| <b>F6</b> 6 inches (150mm)                           | <b>F8</b> 8 inches (200mm)                           |                                       |                       |            |                |            |            |            |            |            |
| <b>4N</b> 8.8.8.8 - 4 digit, numeric format          |  |                                       |                       |            |                |            |            |            |            |            |
| <b>6N</b> 8.8.8.8.8.8 - 6 digit, numeric format      |  |                                       |                       |            |                |            |            |            |            |            |
| <b>Function / Input Type:</b>                        |  |                                       |                       |            |                |            |            |            |            |            |
| <b>C</b> Counter                                     |  |                                       |                       |            |                |            |            |            |            |            |
| <b>Analogue Output:</b>                              |  |                                       |                       |            |                |            |            |            |            |            |
| <b>0</b> None  | <b>ANB</b> -10 to +10V                               | <b>ANI</b> 4-20mA                     | <b>ANV</b> 0-10V      |            |                |            |            |            |            |            |
| <b>Alarm Outputs:</b>                                |  |                                       |                       |            |                |            |            |            |            |            |
| <b>0</b> None  | <b>AL2</b> 2 x SPST mechanical relays                | <b>AL4</b> 4 x SPST mechanical relays |                       |            |                |            |            |            |            |            |
| <b>DSS</b> 2 x solid state relays (specify AC or DC) | <b>QSS</b> 4 x solid state relays (specify AC or DC) |                                       |                       |            |                |            |            |            |            |            |
| <b>SPCO</b> 2 x SPCO mechanical relays               |  |                                       |                       |            |                |            |            |            |            |            |
| <b>Data Output:</b>                                  |  |                                       |                       |            |                |            |            |            |            |            |
| <b>0</b> None  | <b>232</b> RS232                                     | <b>485</b> RS422/485 + Modbus ASCII   | <b>RTU</b> Modbus RTU |            |                |            |            |            |            |            |
| <b>Digit Colour:</b>                                 |  |                                       |                       |            |                |            |            |            |            |            |
| <b>Indoor</b>  |  |                                       |                       |            | <b>Outdoor</b> |            |            |            |            |            |
| <b>B</b> Blue 6" and 8"                              |  | <b>BDLV</b> Blue 6" and 8"            |                       |            |                |            |            |            |            |            |
| <b>G</b> Green                                       |  | <b>GDLV</b> Green                     |                       |            |                |            |            |            |            |            |
| <b>R</b> Red   |  | <b>RDLV</b> Red                       |                       |            |                |            |            |            |            |            |
| <b>W</b> White 6" and 8"                             |  | <b>WDLV</b> White 6" and 8"           |                       |            |                |            |            |            |            |            |
| <b>Y</b> Yellow                                      |  | <b>YDLV</b> Yellow                    |                       |            |                |            |            |            |            |            |
| <b>Power:</b>  |  |                                       |                       |            |                |            |            |            |            |            |
| <b>48VAC</b> 48V AC                                  | <b>AC</b> 95-265V AC                                 | <b>DC</b> 11-30V DC                   |                       |            |                |            |            |            |            |            |
| <b>Mounting:</b>                                     |  |                                       |                       |            |                |            |            |            |            |            |
| <b>2</b>   | Wall, cable glands on bottom surface                 |                                       |                       |            |                |            |            |            |            |            |
| <b>3</b>   | Suspension, cable glands on bottom surface           |                                       |                       |            |                |            |            |            |            |            |
| <b>4</b>   | Wall, cable glands on top surface                    |                                       |                       |            |                |            |            |            |            |            |
| <b>5</b>   | Suspension, cable glands on top surface              |                                       |                       |            |                |            |            |            |            |            |

