# NT2S

*Programmable function key terminals*

**2 lines-16 character display • 6 (function) keys • affordable**

*Need a simple, high quality, low-cost solution?*

# NT2S

## Programmable function key terminals

### Appealing simplicity

**The Omron NT2S programmable function key terminals are appealing in their simplicity. These small, six key terminals can be placed anywhere. With their 2 lines of 16 character displays they are not only attractive to your customer, but more importantly, they fulfill all the functionality that you need in a great variety of applications.**

### The easily applicable type
NT2S-SF123B-E. This Omron terminal is easily applicable in almost any configuration. The main advantage of this specific type of terminal is that you do not need to program the terminal itself. Instead it connects directly to a PLC. Key activation is directly fed to the memory of this PLC. Even the terminal texts are stored in the PLC memory.

### The best connected type
NT2S-SF122B-E. This programmable function key terminal is highly connectable. It is not only plug compatible to Omron PLCs. A full list of drivers also makes it fully compatible with almost any other PLC brand. The available programming tool for the Omron NT2S series is extremely user-friendly. Just select the required driver from this tool. It configures the programmable function key terminal automatically when you download your application.

### Integrated time base included
NT2S-SF121B-E. Top of the line. Identical to type SF122B but with a programmable real time clock and a separate additional 24-Volt supply connector.

**Capacity**
• The memory of 8 Kbytes allows the use of 250 different screens.

**Variables**
• Variables linked to PLC memory locations can be changed from the terminal.
• PLC memory locations can be embedded within text messages.

**Bar graphs**
• Contends of PLC memory locations can be display by means of horizontal bar graphs.

**Communication modes**
• The terminals communicate with Omron PLC's through the Hostlink protocol.
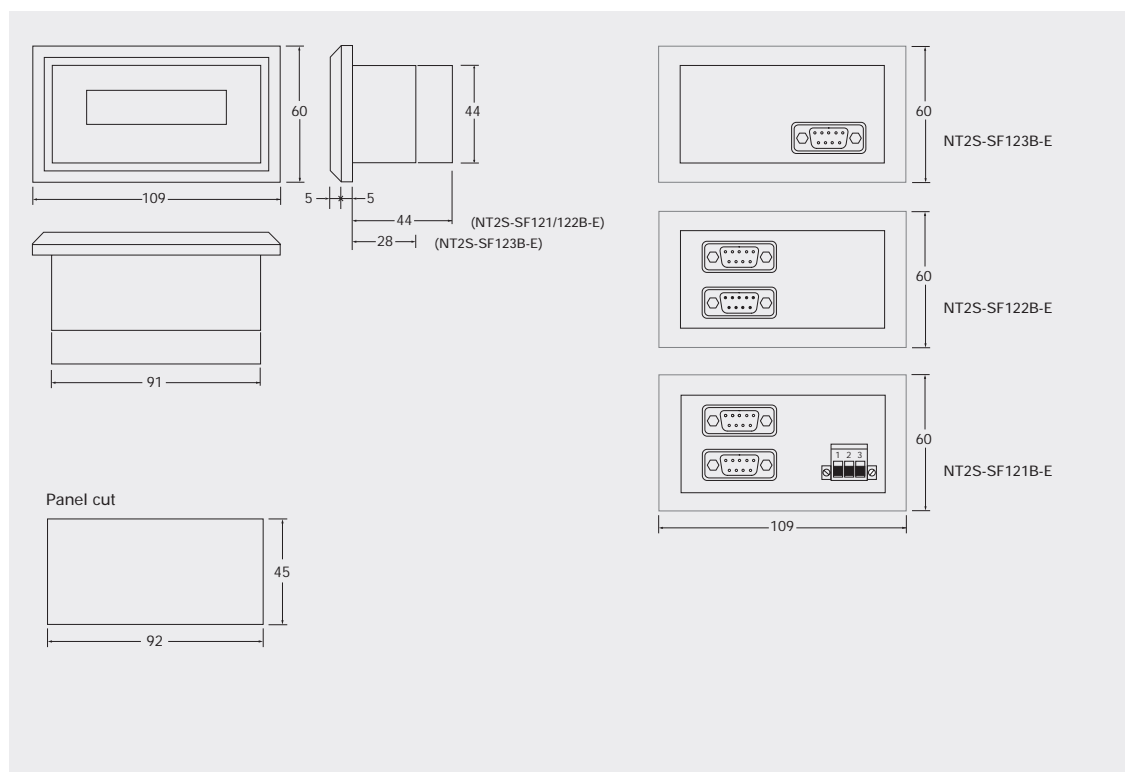• Per PLC port one terminal can be connected.

# General specifications

| | NT2S-SF123B-E | NT2S-SF122B-E | NT2S-SF121B-E |
|---|---|---|---|
| Display | Character LCD | | |
| Backlight | LED | | |
| Char. Height | 4,35 mm | | |
| Characters | 2 lines, 16 characters | | |
| Area (l x h) | 60 x 13 mm | | |
| Key type | Membrane | | |
| Nbr. of keys | 6 | 6 | 6 |
| Function | Controlled by PLC | Dual function: operation keys and programmable function keys | |
| Memory | 8 kByte | | |
| Serial ports | - | PC download and printing: RS232 DB9 female | |
| | PLC: CMOS DB9 male | PLC: CMOS DB9 male | PLC: RS232/CMOS DB9 male |
| Power supply | Through PLC cable | Through PLC cable | 10 - 30 Vdc |
| Load | - | - | 1,5 W |
| Protection | IP65/Nema 4-12 | | |
| Operating temp. | 0 to 50°C | | |
| Storage temp. | -20 to 60°C | | |
| Mounting depth | 28 mm | 44 mm | 44 mm |
| Front size (l x h) | 109 x 60 mm | | |
| Front | Polyester foil | | |
| Casing | Plastic | | |
| Weight | 400g | | |
| Mounting method | 2 clamps | | |
| Sealing method | Rubber foam gasket | | |
| Panel cut | 92 x 45 mm (1/8 DIN format) | | |
| Standards | CE, UL/CSA | | |
| Noise resistance | | | |
| Common mode | 1700 Vp-p (between the power supply terminals and panel) | | |
| Normal mode | 480Vp-p | | |
| Pulse range | 100 ns and 1us | | |
| Rise time | 1 ns pulse | | |
| Vibration resistance | 10 to 61,2 Hz, amplitude 0,1 mm. 61,2 to 150 Hz, 1,5 G 3 directions, 4 sweeps of 8 min. | | |
| Shock resistance | 147 M/s (15G), 3 times in X, Y and Z directions | | |
| Programming tool | Not programmable, controlled by PLC | NT2-ST | |

**For more information**

For full distributor information please call the nearest Omron Company listed in this brochure.

# Dimensions

60

109

44

5 ← → 5

44 (NT2S-SF121/122B-E)

28 (NT2S-SF123B-E)

91

## Panel cut

45

92

60 NT2S-SF123B-E

60 NT2S-SF122B-E

1 2 3

60 NT2S-SF121B-E

109