IMPORTANT NOTE!

This Quick Start Guide is not intended as a replacement for the full installation manual, MN1940 DSM S-Series Installation Manual, which provides detailed information about the products. The installation manual is available in PDF format on the Baldor Motion Toolkit CD or on www.baldormotion.com.

Mounting

Faceplate mounting dimensions are shown in the following diagrams. For full dimensions, see installation manual MN1940.

All dimensions shown as mm (inches)
Power input

The DSM requires an unregulated DC power supply. The specific power supply requirements are determined by the model:

- DSMS17: +12 to +48 VDC, 2 A maximum
- DSMS23: +12 to +75 VDC, 1.5 A maximum
- DSMS34: +12 to +75 VDC, 4 A maximum

Power supplies ideally should conform to one of the following arrangements:

```
+24 V
From
DC Supply
Shielded twisted pair
Ferrite sleeve
500 μF per Amp
Pi type RFI filter
Connect shield to earth ground at
supply end only
To DSM
Red flying lead
```

```
Connect shield to earth ground at
supply end only
Shielded twisted pair
Pi type RFI filter
To DSM
Red flying lead
Black flying lead
```

Flying leads

All models can be supplied with flying leads for the major connections.

```
Colour  Description                  Pin
White   +5 VDC Optocoupler reference 1
Orange  Step Clock input             2
         (Not connected)
Blue    CW/CCW Direction input      3
Brown   Enable/Disable input        4
Black   Motor power GND             5
Red     Motor power                 6
         (12-48 VDC or 12-75 VDC)
```

Some applications may require that the DSM moves with the axis motion. If this is a requirement of your application, the motor leads must be properly anchored. Secure the flying leads to the motor body using adhesive cable clamps. This will prevent flexing and tugging which can cause damage at critical connection points in the DSM electronics.

Do not bundle the logic leads together with the DSM power leads.

USB/SPI parameter setup cable (optional)

A cable is available for connection between a PC and a DSM series motor.

DSM setup parameters are changed via an SPI (Serial Peripheral Interface) port located on connector P2. This port uses a 10-pin IDC header, and connects to a USB port on your PC. The recommended method of connecting the SPI port to the PC is by using Parameter Setup Cable CBL055-501. This eliminates the need to wire the SPI interface. The motor interface is accessed through the Baldor SPI Interface software. For further details see installation manual MN1940.

P' connector (optional)

Some models can be supplied with a 7-way terminal block for the major connections (DSMS17P... / DSMS23P... only).