

102-M1x1 Series

1-Axis Motion Connector

Features

- 1-Axis Motion Connector
- Max. 20Mbps transfer rate
- Max. 6.5MHz pulse output rate
- 28-bit counter for incremental encoder
- Programmable acceleration and deceleration time
- T-curve and S-curve velocity profiles support
- Change speed/position on-the-fly
- Easy installation for servo or stepping motor driver
- Dimensions: L-79 x W-53 x H-17mm

Ordering information

- **102-M121-DA2(B)-NE**
1-axis motion slave module for Delta A2/3 series servo driver
- **102-M131-MJ4(B)-NE**
1-axis motion slave module for Mitsubishi J3/4 series servo driver
- **102-M141-YS5(B)-NE**
1-axis motion slave module for Yaskawa sigma II/V servo driver
- **102-M171-PA4 (B)-NE**
1-axis motion slave module for Panasonic A4/5/6 series servo driver
- **102-M151-SAN-NE**
1-axis motion slave module for Sanyo Q/R series servo driver
- **102-M191-TAR-NE**
1-axis motion slave module for Oriental α series stepping driver
- **102-M1A1-GEN-NE**
1-axis motion slave module for General purpose
- **102-T1A1-HDB / DUM**
Terminal board for 1-axis motion connector
- **102-M101-DUM**
Terminal board for machine I/O
- **3M E-CON**
3-Pin connector of 3M E-CON for Motionnet®



Specifications

Motionnet®

Communication controller	Motionnet® slave motion controller ASIC
Serial interface	Half duplex RS-485 with transformer isolation
Cable type	CAT5 UTP/STP Ethernet cable
Surge protection	10KV
Transmission speed	2.5Mbps, 5Mbps, 10Mbps and 20Mbps

Motion

Programmable pulse output mode	OUT/DIR, CW/CCW, A/B phase
Programmable pulse command speed	Max. 6.5Mpps
Home return mode	13 types
Velocity profile	T-curve and S-curve
Counter for encoder feedback signals	28 bits
Position compare output	CMP
Incremental encoder input	±EA, ±EB
Encoder index signal input	±EZ
Machine interface	PEL, MEL, ORG and EMG
Servo drive interface	ALM, RDY, SVON, INP and ERC
LED indicator	PWR, RUN, ERR, PEL, MEL, ORG and EMG

General

Power input	18VDC to 36VDC
Power consumption	3W typical
Working temperature	0 to 60°C