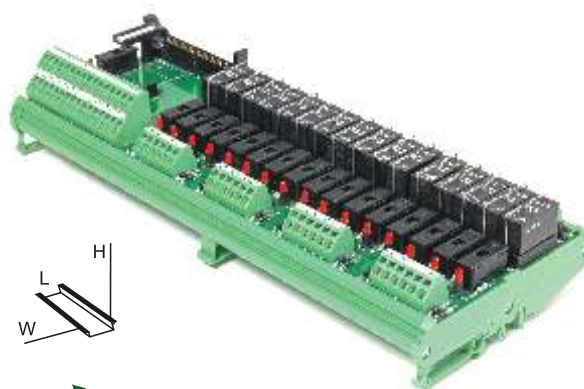


## CNC MODULE WITH SOLID STATE RELAYS, SPRING TERMINALS AND FUSE & FUSE FAIL INDICATION

### Features

- Designed for interfacing CNC Machine controllers having 24 inputs and 16 outputs with System Peripherals.
- Input Voltage 3-32V DC.
- Output Voltage 3-50V DC.
- Rated current 5A.
- Freewheeling Diode across relay coil for protection.
- 50 Pin FRC Connector.
- Fuse & Fuse Blow indication at output.
- LED indication to denote relay actuation.
- Available with pluggable relays, directly soldered on request.
- With Spring Terminals, Screw Terminals on request.
- Mountable on Universal DIN Rail.



### TECHNICAL INFORMATION

#### GENERAL DATA

Input indication	3 mm green LED for input status
Relay protection	Free wheeling diode 1N4007 across relay coil
Output protection	Horizontal fuse 5x20 mm of 2A rating in common path of each contact of each relay
Fuse fail indication	3 mm Red LED to indicate fuse fail
Relay Socket	Paramount or equivalent
Ambient operating temperature	0°C to 50°C
Housing material	PVC/V0 Grade, Phoenix Contact or equivalent
Housing color	Green
Conformal coating	Insulate, protect and seal electronic parts, available on request
RoHS compliant	All the components used including PCBs are RoHS approved

#### RELAY INPUT DATA

Rated coil voltage	24V DC
Minimum voltage	3V DC
Maximum voltage	32V DC
Input Maximum current	15.3 mA (for DC output) 17.3 mA (for AC output)

#### RELAY DATA

Relay make	Agility or equivalent
Output voltage	DC
Relay approvals	CE

#### CONNECTION DATA

Input	50 Pin FRC connector
Make	Omron or equivalent
Output	PCB Spring Terminals (Nominal current: 24A, Rated voltage: 250V, Type of connection: Spring connection)
Cross section of permissible wire	Solid Min/Max: 0.2/4.0 mm <sup>2</sup> Stranded Min/Max: 0.2 / 2.5 mm <sup>2</sup>
Make	Phoenix Contact or equivalent

#### RELAY OUTPUT DATA

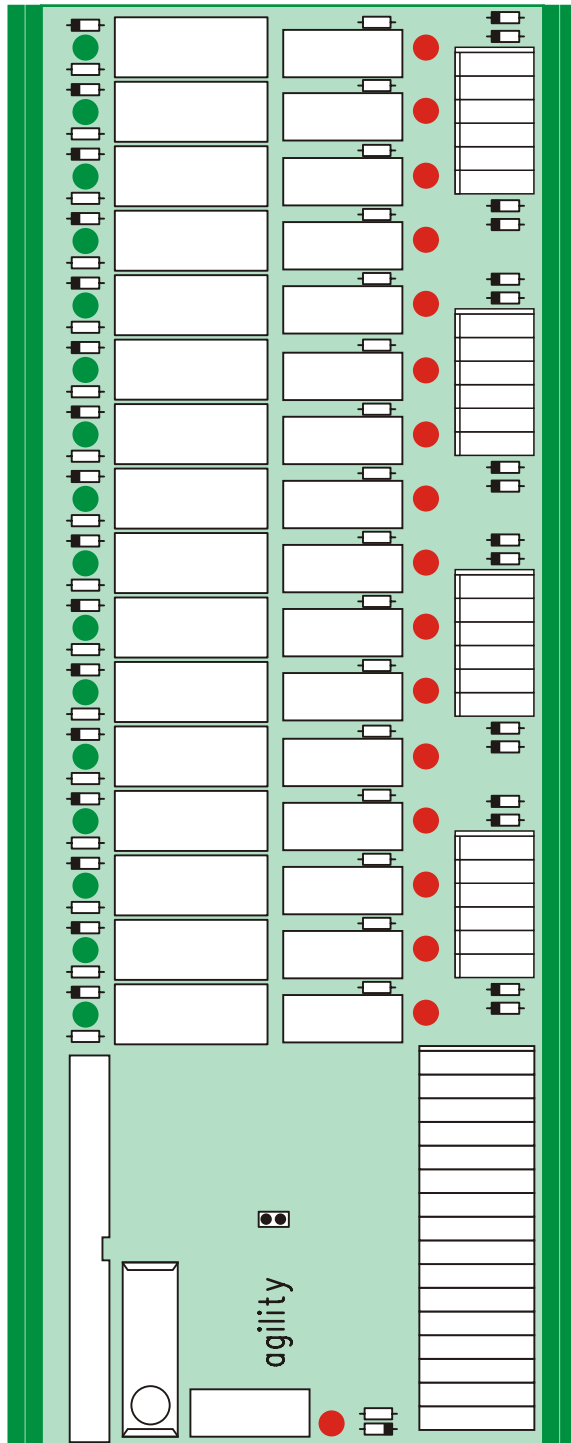
Nominal operating voltage	24V DC
Minimum operating voltage	3V DC
Maximum operating voltage	50V DC
Maximum load current	5A
Maximum turn on time	100 µs
Maximum turn off time	960 µs
Input/Output isolation voltage	2500V
SSR output type	MOSFET

## ORDERING INFORMATION

### CNC Module

Article Nos.	Descriptions	Dimension LxWxH (mm)
11100139	AE-S-16-024D-1-B-CNC-S	311 x 126 x 65

Layout Diagram of AE-S-16-024D-1-B-CNC-S



Connection Diagram of AE-S-16-024D-1-B-CNC-S

