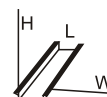


**ONE CHANGE OVER - DC COIL VOLTAGE WITH FUSE & FUSE FAIL INDICATION**
**Features**

- Available in 1/2/4/8/16 Channels.
- Coil Voltage 5/12/24/48V DC.
- Switching Current 12A at 24V DC/ 250V AC.
- Freewheeling Diode across relay coil for protection.
- Fuse & Fuse Blown Indication in Contact.
- Jumpers are provided for selection between positive/negative looping.
- LED indication to denote relay actuation.
- Available with pluggable relays, directly soldered on request.
- Available with Fully Sealed Relay on request.
- Mountable on Universal DIN Rail.


**TECHNICAL INFORMATION**
**GENERAL DATA**

Number of Channels	1/2/4/8/16 Channels other than specified are available on request.
Positive/Negative looping	By using jumper caps, remove all jumper caps to make relay independent
Load/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
Input indication	3 mm Green LED for input status
Relay protection	Free wheeling diode 1N4007 across relay coil
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 COIL DATA**

Rated coil voltage	5V DC	12V DC	24V DC	48V DC
Coil resistance (Ohms)	62.5	360	1440	5358
Rated coil current (mA)	80.0	33.30	16.7	8.96
Must operate voltage	70% max. of rated voltage			
Must release voltage	10% max. of rated voltage			
Maximum voltage	130% at 85°C			
Power consumption (mW Approx.)	400	400	400	430
Other coil voltages	110V DC are available on request			

**RELAY DATA**

Relay make	OMRON G2RL Series, Relay other than OMRON make available on request
Contact type	1 C/O (SPDT)
Relay approvals	

**RELAY CONTACT DATA**

Contact material	Ag-alloy (Cd free)
Rated current (Resistive) (Inductive)	12A at 250V AC / 24V DC
Maximum switching voltage	440V AC, 300V DC
Contact resistance	100mOhm max.
Operate time	15 ms max.
Release time	DC: 5 ms max.
Insulation resistance	1000 M Ohm min.
Di-electric strength between coil & contact	5000V AC, 50/60 Hz for 1 min
Maximum mechanical operating frequency	18000 operation/hour
Maximum electrical operating frequency	1800 operation/hour (under rated load)

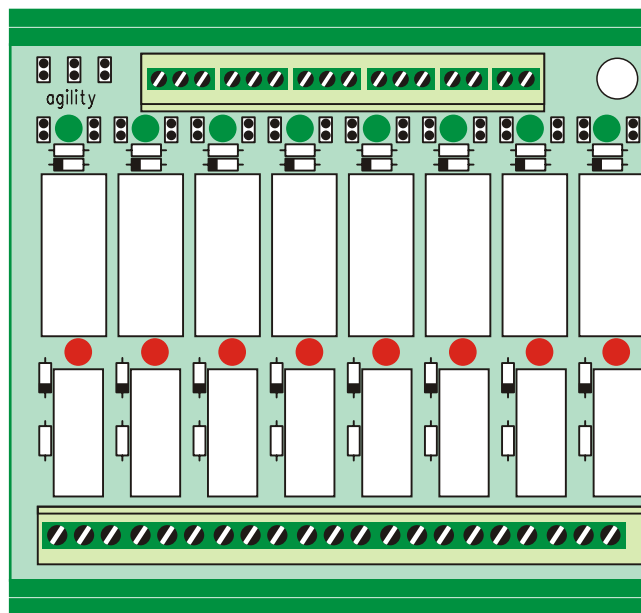
**CONNECTION DATA**

Input (Coil) Side	PCB Terminals Screw (Nominal current: 24A, Rated voltage: 250V, Type of connection: Screw connection)
Output (Contact Side)	PCB Terminals Screw (Nominal current: 24A, Rated voltage: 250V, Type of connection: Screw 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

## ORDERING INFORMATION

1 C/O 24V DC with Fuse Fail Indication at Output			1 C/O 12V DC with Fuse Fail Indication at Output		
Article Nos.	Descriptions	Dimension LxWxH (mm)	Article Nos.	Descriptions	Dimension LxWxH (mm)
11100221	AE-01-024D-1-FFI-B	23 x 126 x 60	11100335	AE-01-012D-1-FFI-B	23 x 126 x 60
11100222	AE-02-024D-1-FFI-B-C	38 x 126 x 60	11100334	AE-02-012D-1-FFI-B-C	38 x 126 x 60
11100223	AE-04-024D-1-FFI-B-C	70 x 126 x 60	11100333	AE-04-012D-1-FFI-B-C	70 x 126 x 60
11100200	AE-08-024D-1-FFI-B-C	132 x 126 x 60	11100332	AE-08-012D-1-FFI-B-C	132 x 126 x 60
11100224	AE-16-024D-1-FFI-B-C	255 x 126 x 60	11100331	AE-16-012D-1-FFI-B-C	255 x 126 x 60

### Layout Diagram of AE-08-024D-1-FFI-B-C



### Connection Diagram of AE-08-024D-1-FFI-B-C

