Autonics Specifications Crimp Terminal Specification Wire Connections ABL-L01PA-NN ABL-L01PA-NY ABL-L01TN-NN ABL-L01TN-NY 1-Point Relay Terminal Block (screwless type) ABL-L01PA(TN)-NN(NY) /ode ABL-L01PA-PN ABL-L01PA-PY ABL-L01TN-PN ABL-L01TN-PY **ABI** Series ower supply (unit: mm Rated load voltage & 24VDC INSTRUCTION MANUAL 250VAC~ 50/60Hz 3A, 30VDC== 3A Applicable wires urrent INPUT OUTPUT JP1 WG22-16 End Sleeve (ferrule terminal) 0.30 to 1.25mm² Thank you for choosing our Autonics product. L0 to 12.0 ≤ 2.0 ≤ 4.1 Dutput type a contact relay output 4 rimp termina 60°C only Please read the following safety considerations before use. Applied relay R1+ [TAKAMISAWA(Fuiitsu)] MATSUSHIT/ Dimensions (unit: mm) rminal type rewless ABL-L01PA(TN)-PN(PY) Safety Considerations erminal pitch .0mm (arranging over 2 units) 38 9 Operation indicator slue LED *Please observe all safety considerations for safe and proper product 20.6 to Ø1.25mm (60°C only operation to avoid hazards Applied 24VDC R1-IP1 Stranded able AWG22-16 (0.3 to 1.25mm²) (60°C only) * \Lambda symbol represents caution due to special circumstances in which hazards ee. [**8**][n2224] OUTPUT INPUT Θ may occur Stripped wire length 4 sulation resistance \geq 1,000M Ω (at 500VDC megger Warning Failure to follow these instructions may result in serious injury or death. Between GND R1+ 3,000VAC 50/60Hz for 1 minute 3,000VAC 50/60Hz for 1 minute ielectri - coil-contac 80 A Caution Failure to follow these instructions may result in personal injury or product damag rength etween sai 1,000VAC 50/60Hz for 1 minute 750VAC 50/60Hz for 1 minute ntact Using Jumper Bar 75mm amplitude at frequency of 10 to 55Hz (for 1 min) in Mechanical ▲ Warning *ABL-L01 model is integrated relay. The unit cannot replace only relay. /ibraeach X, Y, Z direction for 2 hours 1.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in ach X, Y, Z direction for 10 minutes tion Malfunction 1. Fail-safe device must be installed when using the unit with machinery that The right figure example is for 4 . Fail-sale device inductive installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, crime/disaster prevention devices, etc.) apparatus, safety equipment, crime/disaster prevention devices, etc.) ABL-LÕ1 - O units with jumper bar. 8 Mechanical 1,000m/s² (approx. 100G) in each X, Y, Z direction for 3 times 「雄武の Shock For power common, insert a jumper bar 00m/s² (approx. 10G) in each X, Y, Z direction for 3 times ç to top. For load common, insert it to POWER COMMON Environ Ambient temp. -15 to 55°C, storage: -25 to 65°C is instruction may result in personal injury, economic loss or bottom. nent 5 to 85%RH, storage: 35 to 85%RH 2. Do not use the unit in the place where flammable/explosive/corrosive *laterial* gas, high humidity, direct sunlight, radiant heat, vibration, impact, or ase&base: poly phenylene sulfide gas, light many be present. salinity may be present. Failure to follow this instruction may result in explosion or fire. 3. Do not connect, repair, or inspect the unit, remove connector, or change Relay while connected to a power source. e Protection structure IEC standard Approval C € «∰» изта Weight® Approx. 138g (approx. 21g) Approx. 135g (approx. 21g) to follow this instructi on may result in fire or electric shock. *1: This is for load protection and it is recommend to use at the inductive load. 4. Do not disassemble or modify the unit. : Relay load capacity for resistive load. : The current consumption including LED current by one relay. XC Failure to follow this instruction may result in fire or electric shock. Jumper bar (model: JB-9.0-04L) ※4: When using stranded wire, use End Sleeve (ferrule terminal) crimp terminals. ※5: ABL-L01□-□Y (varistor installed type), this is 300VAC. 31 **∧** Caution *6: The weight of 1-point unit is per 4 units with packaging and the weight of parenthesis is per 1. *For the desired application 1. Use the unit within the rated specifications. Cautions during Use *Environment resistance is rated at no freezing or condensation. /wi@onia (power/load common). ailure to follow this instruction may result in fire or product damage Use a dry cloth to clean the unit, and do not use water or organic solvent. Relay the jumper bar is sold 1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause ailure to follow this instruction may re) Coil spe cification separately. unexpected accidents. ♥ 3. Keep the product away from metal chip, dust, and wire residue which ⊕ Must operate /oltage 2. Check the polarity of power or COMMON before connecting PLC or other Rated Must release /oltage Rated Power consumption flow into the unit. Failure to follow this instruction may result in fire or product damage Model Coil resistance 4-2.2 0.5 controllers ≥ 70% of ated voltage ≤ 5% of ated voltage APAN3124 24VDC= 4.6mA 5.236Ω 110mW 27 4. Do not use the product when a screw of terminal is loosened 3. Do not touch the unit immediately after the load power is supplied or Failure to follow this instruction may result in fire or product damage NYP24W-K 24VDC= 2.41/ 5mA 4 800 0 120mW cut. DIN rail Installation 2) Contact specifications It may cause burn by high temperature. connectio 4. 24VDC power supply should be insulated and limited voltage/current or Maker MATSUSHITA (Panasonic) part Ordering Information 1. Mounting and removal at DIN rail APAN3124 NYP24W-K Class 2, SELV power supply device. Mounting 5. Wire as short as possible and keep away from high voltage lines or Arrangement 1 Form A (SPST-1a DIN rai 1) Pull the rail lock towards direction (1). Terminal Connector No. of Input Varistor power lines, to prevent surge and inductive noise. Do not use near the Model Relay type Au-clad AgNi type Gold overlay silver alloy 2) Attach the DIN rail connection part onto type type relay point ogic installation 30mΩ (6V equipment which generates strong magnetic force or high frequency the DIN rail. Rated load Rail lock Not 5A 250VAC~ 5A 30VDC== 3A 250VAC~ 3A 30VDC ----3) Push the unit towards direction ②. noise (transceiver, etc.). In case installing the product near the ABL-L01TN-NN (resistive load) installed NPN then push the rail lock in to lock toward equipment which generates strong surge (motor, welding machine, etc.), Max. switching powe ,250VA 0W the unit. ABL-L01TN-NY Installed TAKAMISAWA use diode or varistor to remove surge. Max. switching voltage 70VAC This unit may be used in the following environments. (Fujitsu) NYP Not Max. switching current ABL-L01TN-PN ① Indoors(in the environment condition rated in 'Specifications') installer Insulation resistance 2 Altitude max. 2,000m Coil and 3.000VAC 50/60Hz for 1 Removal ABL-L01TN-PY Installed Dielectri ontacts minute minute ③ Pollution degree 2 1) Insert a screwdriver into the rail lock hole rewless Screwless strength 1 000VAC 50/60Hz for 1 750VAC 50/60Hz for 1 Not Onen and push it towards direction ① ④ Installation category II ABI-I 01PA-NN ontacts minute minute installed 2) Remove the unit by pulling the unit NDN Surge voltage 6.000V MATSUSHITA towards direction 2 ABL-L01PA-NY Operate time $\leq 10 \text{ms}$ (Panasonic) Release time $\leq 5 m s$ ABL-L01PA-PN PA. 5.0mm amplitude at frequency of 10 to 55Hz (for 1 min) in each? installer 5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X. /lechanical ABL-L01PA-PY Installed Z direction for 1 hour . Z direction for 1 hour 2.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, 1.5mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y Connecting Crimp Terminals Malfunction Z direction for 10 minute direction for 10 minute ◎ Connecting and removing end sleeve 1, 1,000m/s² (approx. 100G) in each X. Y. Z direction for 3 times 0m/s² (approx. 100G) in each X Mechanical Z direction for 3 times (ferrule terminal) crimp terminal at 147m/s²(approx. 15G) in each X, 100m/s²(approx. 10G) in each X, Y, Z direction for 3 times Y, Z direction for 3 times screwless type terminal block Malfunction Connecting Mechanical ≥ 20,000,000 operations (at 180 times/min) 1) Push the end sleeve (ferrule terminal) crimp Electrical 100,000 operations (3A 250VAC~, 30VDC== resistive load) terminal towards direction (1) to complete the nviron Ambient temr -40 to 90°C -40 to 90°C connection **%**The above specifications are subject to change and some models nent Ambient humi 5 to 85%RF 35 to 80% RF Removing • 8 may be discontinued without notice. nit weight Innrox 3g Approx 3 50 1) Press and hold the catch above the terminal in 18, Bansong-ro 513Beon-gil, Haeundae-gu, Busan, Republic of Korea, 48002 Autonics *Be sure to follow cautions written in the instruction manual direction 2 with a flathead screwdriver. %1: 50,000 operations - 5A 250VAC, 30VDC resistive load. (per 20 operations/min) 2) Pull and remove the end sleeve (ferrule terminal) and the technical descriptions (catalog, website). *Environment resistance is rated at no freezing or condensation. crimp terminal towards direction ③.