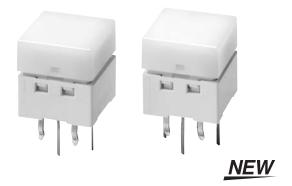
Illuminated Tactile Switches B3W-9

Compact Illuminated Tactile Switch with 2 LEDs

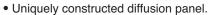
- Compact construction (10 x 10 x 11 mm height) with bright and uniform illumination.
- Three-color illumination (red LED + green LED = orange).
- Standard force (1.57 N) and high-force (2.26 N) models.
- RoHS Compliant



Features

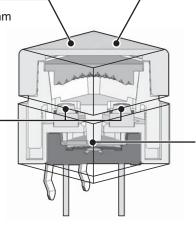
Bright and uniform illumination

 Compact construction (10 \times 10 \times 11 mm height) equipped with 2 LEDs.





 Simultaneous use of red and green LEDs create a third color (orange).



Snap-action contact construction for a positive click action.

 Models available with two different operating forces, standard force (1.57 N) and high-force (2.26 N).

High contact reliability

 Sealed switch part provides high contact reliability against dust.

Model Number Structure



1. Operating force

- 0: Standard (OF = 1.57 N)
- 2: High-force (OF = 2.26 N)

2. LED color

- R: Red
- G: Green
- HG: Green (high brightness)
- Y: Yellow
- B: Blue
- RG: Red + Green (Combination of LED colors)

3. No. of LEDs

1

- 1:
- 2: 2

4. Cap

- R: Red
- G: Green
- Y: Yellow
- B: Blue
- C: Transparent
- N: Milky white

Note: 1. Switches with two LEDS are only available with Transparent or Milky White caps.

If a tricolour operation is required, use the Red+Green (RG) combination with the milky white cap. Simultaneous illumination of these two LEDs will produce Orange.

Ordering Information

■ Standard force

Force	LED Colour	No. of LEDs	Cap colour	Model
Standard	Blue	1	Blue	B3W-9000-B1B
force (OF = 1.57 N)			Transparent	B3W-9000-B1C
			Milky white	B3W-9000-B1N
		2	Blue	B3W-9000-B2B
			Transparent	B3W-9000-B2C
			Milky white	B3W-9000-B2N
	Green	1	Green	B3W-9000-G1G
			Transparent	B3W-9000-G1C
			Milky white	B3W-9000-G1N
		2	Green	B3W-9000-G2G
			Transparent	B3W-9000-G2C
			Milky white	B3W-9000-G2N
	Green	1	Green	B3W-9000-HG1G
	(High brightness)		Transparent	B3W-9000-HG1C
			Milky white	B3W-9000-HG1N
		2	Green	B3W-9000-HG2G
			Transparent	B3W-9000-HG2C
			Milky white	B3W-9000-HG2N
	Red	1	Red	B3W-9000-R1R
			Transparent	B3W-9000-R1C
			Milky White	B3W-9000-R1N
		2	Red	B3W-9000-R2R
			Transparent	B3W-9000-R2C
			Milky white	B3W-9000-R2N
	Yellow	1	Yellow	B3W-9000-Y1Y
			Transparent	B3W-9000-Y1C
			Milky White	B3W-9000-Y1N
		2	Yellow	B3W-9000-Y2Y
			Transparent	B3W-9000-Y2C
			Milky white	B3W-9000-Y2N
	Red+	2	Transparent	B3W-9000-RG2C
	Green		Milky White	B3W-9000-RG2N

■ High-force

Force	LED Colour	No. of LEDs	Cap colour	Model
Force High- force (OF = 2.26N)	Blue	1	Blue	B3W-9002-B1B
			Transparent	B3W-9002-B1C
2.2011)			Milky white	B3W-9002-B1N
		2	Blue	B3W-9002-B2B
			Transparent	B3W-9002-B2C
			Milky white	B3W-9002-B2N
	Green	1	Green	B3W-9002-G1G
			Transparent	B3W-9002-G1C
			Milky white	B3W-9002-G1N
		2	Green	B3W-9002-G2G
			Transparent	B3W-9002-G2C
			Milky white	B3W-9002-G2N
	Green	1	Green	B3W-9002-HG1G
	(High brightness)		Transparent	B3W-9002-HG1C
			Milky white	B3W-9002-HG1N
		2	Green	B3W-9002-HG2G
			Transparent	B3W-9002-HG2C
			Milky white	B3W-9002-HG2N
	Red	1	Red	B3W-9002-R1R
			Transparent	B3W-9002-R1C
			Milky white	B3W-9002-R1N
		2	Red	B3W-9002-R2R
			Transparent	B3W-9002-R2C
			Milky white	B3W-9002-R2N
	Yellow	1	Yellow	B3W-9002-Y1Y
			Transparent	B3W-9002-Y1C
			Milky white	B3W-9002-Y1N
		2	Yellow	B3W-9002-Y2Y
			Transparent	B3W-9002-Y2C
			Milky white	B3W-9002-Y2N
	Red + Green	2	Transparent	B3W-9002-RG2C
			Milky white	B3W-9002-RG2N

Specifications

■ Ratings/Characteristics

(Same for Both Standard and High-force Switches)

Switching capacity	1 to 50 mA, 5 to 24 VDC (resistive load)		
Ambient operating temperature	-25°C to 70°C at 60% max. humidity (with no icing or condensation)		
Ambient operating humidity	35% to 85% (at 5° to 35°C)		
Contact configuration	SPST-NO Momentary		
Contact resistance	100 mΩ max. (initial value) (rated: 1 mA, 5 VDC)		
Insulation resistance	100 MΩ min. (at 250 VDC)		
Dielectric strength	500 VAC, 50/60 Hz for 1 min		
Bounce time	5 ms max.		
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5 mm double amplitude		
Shock resistance	Destruction: 1,000 m/s² {approx. 100 G} max. Malfunction: 100 m/s² {approx. 10 G} max.		
Life expectancy	Switch section 1.57 N (standard force): 1,000,000 operations min. 2.26 N (high-force): 300,000 operations min.		

■ Operating Characteristics

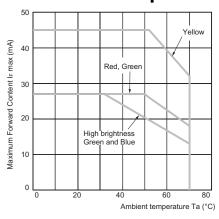
Item	Standard-force Switches (B3W-9000)	High-force Switches (B3W-9002)
Operating force (OF)	1.57 N {160 gf} max.	2.26 N {230 gf} max.
Isolation	0.2 N {20 gf} min.	0.49 N {50 gf} min.
Isolation	0.25+ ^{0.2} / _{-0.1} mm	

LED Specifications

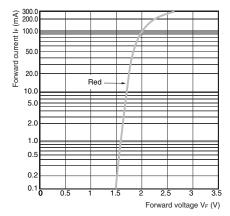
LED color	Red	Green	Green (high brightness)	Yellow	Blue
Maximum Forward current I _{FMAX}	27 mA	27 mA	27 mA	45 mA	27 mA
Recommended operating current I _F	20 mA	20 mA	10 mA	20 mA	10 mA
Forward voltage (typical value) V _F	1.8 V	2.1 V	3.7 V	2.4 V	3.7 V
Maximum reverse voltage V _R	5 V	5 V	5 V	5 V	5 V

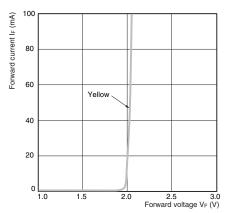
LEDs

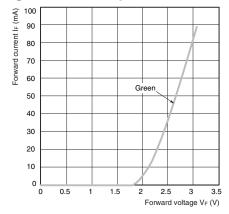
■ Ambient Temperature vs Maximum Forward Current

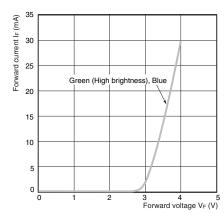


■ Forward Current vs Forward Voltage Curves (Condition: Ta = 25°C)









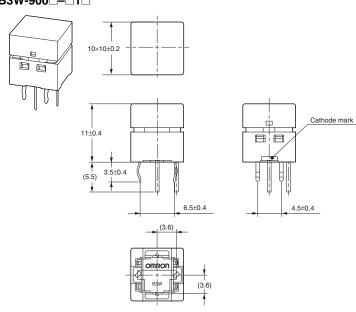
- Note: 1. Pay attention to the polarity of each LED. The anode and cathode can be identified by finding the cathode mark, as indicated on the Dimensions page.
 - 2. Connect limiting resistors to the LEDs. The Switch does not have built-in limiting resistors, so satisfy the LED characteristics by obtaining the limiting resistance according to the following formula based on the voltage to be used.

Dimensions

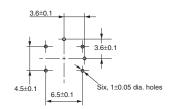
Note: All units are in millimeters unless otherwise indicated. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

■1 LED Types

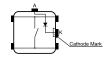
B3W-900□-□1□



PCB Mounting (Top View)



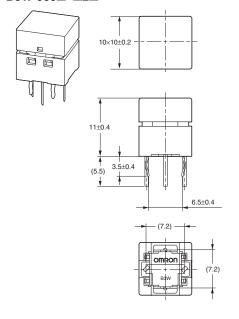
Terminal Arrangement/ Internal Connections (Top View)

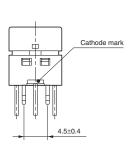


Note: If the poles of the LED are set incorrectly, it may result in malfunction.

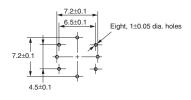
■ 2 LED Types

B3W-900□-□2□

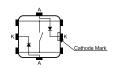




PCB Mounting (Top View)



Terminal Arrangement/ Internal Connections (Top View)



Note: If the poles of the LED are set incorrectly, it may result in malfunction.

Safety Precautions

■ Precautions for Correct Use

Electrical Standards

All Use the Switch within the rated voltage and current ranges, otherwise the Switch may have a shortened life expectancy, radiate heat, or burn out. This particularly applies to the instantaneous voltages and currents when switching.

Soldering

1. Soldering Precautions

- Before any kind of soldering, test to confirm that soldering can be performed properly. Otherwise the Switch may be deformed by the soldering heat depending on the type of PCB, pattern, or lands of the PCB.
- Do not solder the Switch more than twice, including rectification soldering. Wait for at least five minutes between the first and second soldering to allow the temperature to return to normal. Continuous soldering may cause the casing to melt or deteriorate the Switch characteristics.

2. Automatic Soldering Baths (Wave Soldering)

- Soldering temperature: 260° C max.
- Soldering time: 5 s max. for a 1.6-mm thick single-side PCB
- Preheating temperature: 100°C max. (ambient temperature)
- Preheating time: Within 60 s
- Precautions

Make sure that no flux will rise above the level of the PCB. Also make sure that flux is not applied to the switch terminals or to the mounting surface of the PCB. If flux overflows onto the mounting surface of the PCB, it may enter the Switch and cause a malfunction.

3. Manual Soldering

- Soldering temperature: 350°C max. at the tip of the soldering iron
- Soldering time: 3 s max. for a 1.6-mm thick, single-side PCB
- Precautions: Before soldering the Switch on a PCB, make sure that there is no unnecessary space between the Switch and the PCB.

Washing

Since Illumination part and actuation part are not sealed, switch cannot be washed. Doing so will cause the washing agent, together with flux or dust particles on the PCB, to enter the Switch, resulting in malfunction.

PCBs

The Switch is designed for a 1.6-mm thick, single-side PCB. Using PCBs with a different thickness or using double-sided, through-hole PCBs may result in loose mounting, improper insertion, or poor heat resistance in soldering. These effects will occur, depending on the type of holes and patterns of the PCB.

Therefore, it is recommended that a verification test is conducted

Handling

1. Usage Environment

Before installing the Switch, make sure that the area of installation is not subject to corrosive gases emitted from surrounding parts.

Do not use in areas subject to high temperatures, high humidity, or toxic gases such as sulfuric gas (H2S, SO2), ammonia gas (NH3), nitric gas (HNO3), or chlorine gas (Cl2). It can cause

corrosive damage to the contacts and result in malfunction. If there is silicon in the atmosphere, it may stop the contacts from functioning properly.

If silicon products, such as silicon oil, silicon filler, or silicon wires, are used in the surrounding area, install a contact protection circuit to prevent arching or remove the silicon source.

The following situations may cause water to enter inside the Switch, resulting in a malfunction due to contact failure or corrosion.

- Using the Switch in an outdoor environment where it is exposed to water drops for an extended period of time.
- Using the Switch in an underwater setting where it is subject to strong water pressure.

Do not use Switches that have been dropped. The mating section or other internal parts may be damaged, resulting in malfunction.

Operation

Do not repeatedly operate the Switch with excessive force. Applying excessive pressure or applying additional force after the plunger has stopped may deform the disk spring of the Switch, resulting in malfunction.

Be sure to set up the Switch so that the plunger will operate in a straight vertical line.

If the plunger is pressed off-center or from an angle it may cause deformation or damage to some parts. This may result in deterioration of durability or malfunction.

Dust Protection

Although the switching mechanism is a sealed structure (IP64), illumination part and actuation part is not sealed. Ensure you have the correct environmental conditions for installation. Use a protective sheet or take other measures to protect against dust.

Sensitivity to Static Electricity

Switches with high-brightness green (HG) or blue (B) LEDs are susceptible to static electricity. Take care when handling switches with these LEDs as the LEDs may be damaged.

Storage Precautions

Storage Environment

To prevent degradation, such as discoloration, of the terminals during storage, do not store the Switch in locations that are subject to the following conditions.

- 1. High temperature or humidity
- 2. Corrosive gases
- 3. Direct sunlight

Storage condition

Store the Switches in the packaging box.

After the packaging box is opened, use the contents as quickly as possible. When storing leftover parts, make sure that appropriate measures are taken against humidity and corrosive gases.

Agreement of Product Use

Comply with the usage, storage, and disposal conditions specified by OMRON as outlined in the precautions in the product datasheet and specifications.

Omron Electronic Components LLC

Terms and Conditions of Sales

I. GENERAL

Definitions: The words used herein are defined as follows

These terms and conditions Terms:

Seller: Omron Electronic Components LLC and its subsidiaries

The buyer of Products, including any end user in section III through VI Products and/or services of Seller Buyer: Products:

Including: Including without limitation

- Offer: Acceptance: These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these
- Distributor: Any distributor shall inform its customer of the contents after and including

- Prices; Payment: All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment. Payments for Products received are due net 30 days unless otherwise stated in the invoice. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice.
- Discounts: Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (a) the invoice is paid according to Seller's payment terms and (b) Buyer has no past due amounts owing to Seller.
- Interest: Seller, at its option, may charge Buyer 1.5% interest per month or the maximum

- legal rate, whichever is less, on any balance not paid within the stated terms.

 Orders: Seller will accept no order less than 200 U.S. dollars net billing.

 Currencies: If the prices quoted herein are in a currency other than U.S. dollars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made
- Governmental Approvals: Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
- Taxes: All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
- Financial: If the financial position of Buyer at any time becomes unsatisfactory to Seller, Seller reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Seller may (without liability and in addition to other remedies) cancel any unshipped portion of Products sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts
- Cancellation; Etc.: Orders are not subject to rescheduling or cancellation unless Buyer
- indemnifies Seller fully against all costs or expenses arising in connection therewith. Force Majeure: Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
- <u>Shipping: Delivery:</u> Unless otherwise expressly agreed in writing by Seller:
 (a) All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the
 - Products until the full purchase price is paid by Buyer; Delivery and shipping dates are estimates only; and
- (c) Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.

 Claims: Any claim by Buyer against Seller for shortage or damage to the Products.
- occurring before delivery to the carrier must be presented in detail in writing to Seller within 30 days of receipt of shipment.

III. PRECAUTIONS

- Suitability: IT IS THE BUYER'S SOLE RESPOINSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPLICATION. BUYER SHALL BE SULELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
- Use with Attention: The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
 - Outdoor use, use involving potential chemical contamination or electrical interference
 - Use in consumer Products or any use in significant quantities.

- (c) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property. Prohibited Use: NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
- Motorized Vehicle Application: USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY
- Programmable Products: Seller shall not be responsible for the Buyer's programming of a programmable Product.

IV. WARRANTY AND LIMITATION

- Warranty: Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS
- Buyer Remedy: Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that there shall be no liability for Seller or its affiliates unless Seller's analysis confirms that the Products were handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Seller before shipment.

 <u>Limitation on Liability</u>: SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF
- PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT WARRANTY, NEGLIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL LIABILITY OF SELLER OR ITS AFFILITATES EXCEED THE INDIVIDUAL PRICE OF THE PRODUCT ON WHICH LIABILITY IS ASSERTED.
- Indemnities: Buyer shall indemnify and hold harmless Seller, its affiliates and its employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, investigation, litigation or proceeding (whether or not Seller is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products.

V. INFORMATION; ETC.

- Intellectual Property: The intellectual property embodied in the Products is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Buyer (at its own expense) shall indemnify and hold harmless Seller and defend or settle any action brought against Seller to the extent that it is based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
- Property: Confidentiality: Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Seller. All information and materials supplied by Seller to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.

 <u>Performance Data</u>: Performance data is provided as a guide in determining suitability
- and does not constitute a warranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements.
- Change In Specifications: Product specifications and description may be changed at any time based on improvements or other reasons. It is Seller's practice to change part numbers when published ratings or features are changed, or when significant engineering changes are made. However, some specifications of the Product may be changed without any notice.
- Errors And Omissions: The information on Seller's website or in other documentation has been carefully checked and is believed to be accurate; however, no responsibility is
- assumed for clerical, typographical or proofreading errors or omissions.

 <u>Export Controls</u>: Buyer shall comply with all applicable laws, regulations and licenses regarding (a) export of the Products or information provided by Seller; (b) sale of Products to forbidden or other proscribed persons or organizations; (c)disclosure to non-citizens of regulated technology or information.

VI. MISCELLANEOUS

- Waiver: No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller.
- Assignment: Buyer may not assign its rights hereunder without Seller's written consent.
- Law: These Terms are governed by Illinois law (without regard to conflict of laws). Federal and state courts in Illinois have exclusive jurisdiction for any dispute hereunder.
- Amendment: These Terms constitute the entire agreement between Buyer and Seller relating to the Products, and no provision may be changed or waived unless in writing signed by the parties
- Severability: If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision.

Certain Precautions on Specifications and Use

- Suitability for Use. Seller shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in Buyer's application or use of the Product. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non
 - exhaustive list of applications for which particular attention must be given:

 (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
 - (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government
 - regulations.
 Use in consumer products or any use in significant quantities.
 - (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

- <u>Programmable Products.</u> Seller shall not be responsible for the user's programming of a programmable product, or any consequence thereof. <u>Performance Data.</u> Performance data given in this publication is provided as
- a guide for the user in determining suitability and does not constitute a war-ranty. It may represent the result of Seller's test conditions, and the users must
- correlate it to actual application requirements. Actual performance is subject to Seller's Warranty and Limitations of Liability.

 Change in Specifications. Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, tice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Seller representative at any time to confirm actual specifications of purchased Product.

 Errors and Omissions. The information in this publication has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors, or omissions.

 ROHS Compliance. Where indicated, our products currently comply, to the best of our knowledge as of the date of this publication, with the requirements of the European Union's Directive on the Restriction of certain Hazardous Substances ("ROHS"), although the requirements of ROHS do not take effect
- Substances ("RoHS"), although the requirements of RoHS do not take effect until July 2006. These requirements may be subject to change. Please consult our website for current information.

Complete "Terms and Conditions of Sale" for product purchase and use are on Omron's website at http://www.components.omron.com - under the "About Us" tab, in the Legal Matters section.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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