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## NRNT7.E153882

### Switches, Industrial Control Certified for Canada

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### Switches, Industrial Control Certified for Canada

#### Guide Information

#### **PILZ GMBH & CO KG**

E153882

FELIX WANKEL STRASSE 2

73760 OSTFILDERN 2, GERMANY

**Open type, monitor relays,** Types S1IM, S1MS, S1PN, S1UM, S3UM, S1MO, S1MN, S1EN, S1WP, ZUZ, P1E-2NK, may be followed by additional suffix numbers and/or letters.

**Safety relays,** Types PNOZ, PNOZ Z, PNOZ 1, PNOZ 2, PNOZ 3, PNOZ 4, PNOZ 5, PNOZ 6, PNOZ 8, PNOZ 8.1, PNOZ 8.2, PNOZ 9, PNOZ 10, PNOZ 11, PNOZ 16, PNOZ 16S, PNOZ 16SP, PNOZ 17, PNOZ V, PNOZ Ex, PNOZ 2VJ, PNOZ 2VQ.

Types PNOZ X1, PNOZ X1P, PNOZ X2, PNOZ X2.1, PNOZ X2.2, PNOZ X2P, PNOZ X2P AC, PNOZ X2.1VP, PNOZ X2.3P, PNOZ X2.5P, PNOZ X2.6V, PNOZ X2.7P, PNOZ X2.7P, PNOZ X2.8P, PNOZ X2.8P AC, PNOZ X2.9P, PNOZ X2C, PNOZ X2.1C, PNOZ X3, PNOZ X3P, PNOZ X3.1, PNOZ X4, PNOZ X5, PNOZ X6, PNOZ X7, PNOZ X7.1, PNOZ X7P, PNOZ X8P, PNOZ X9, PNOZ X9P, PNOZ X10, PNOZ X13, PNOZ XV1P, PNOZ XV2, PNOZ XV2.1, PNOZ XV2P, PNOZ XV2.1AC, PNOZ XV2.1P, PNOZ XV3, PNOZ XV3P, PNOZ XV3.1, PNOZ XV3.1P, PNOZ XE1, PNOZ XE2, PNOZ XM1.

Types PZE 3V, PZE 5, PZE 5V, PZE 7, PZE 9, PZE 9P, PZE X4, PZE X4V, PZE X4P, PZE X4VP, PZE X4V8, PZE X4VP4, PZE X4VP8, PZE X5P, PZE X5, PZE X5V.

Types PST 1, PST 2, PST 3, PST 4, PZA, PZW, P1H-1SK, P1HZ 2, P1HZ 2V, P2HZ 5, P2HZ 6, P1HZ X1, P2HZ X1, P2HZ X1P, P2HZ X3, P2HZ X4P.

Types PCANop, PCANdn, PDIA2, PMUT X1P, MTA MOD B3, MTA MOD B7, MTA MOD E4, MTA MOD PS, PPS.

Types PNOZ elp, PNOZ elvp, PNOZ e1.1p, PNOZ e3.1p, PNOZ e3vp, PNOZ e2.1p, PNOZ e2.2p, PNOZ e4.1p, PNOZ e4vp.

Types PU3Z, PSWZ, PAD, PDZ may be followed by additional suffix numbers and/or letters.

**Open type, modular safety systems,** PNOZmulti, Types PNOZ m1p, PNOZ mi1p, PNOZ mo1p, PNOZ mo2p, PNOZ mo4p, PNOZ mc1p, PNOZ ms1p, PNOZ mc3p, PNOZ mc4p, PNOZ mc5p, PNOZ mc6p, PNOZ mc7p, may be followed by additional suffix numbers and/or letters.

PNOZpower, Types PNOZ p1p, PNOZ p1vp, PNOZ pps1p, PNOZ po3.1p, PNOZ po3.2p, PNOZ po3.3p, PNOZ po3p, PNOZ po4p, PNOZ pe1p, PNOZ pe2p, may be followed by additional suffix numbers and/or letters.

**Accessories,** Types PSEN 1.1p- xx, PSEN 1.1-xx, PSEN 2.1p- xx, PSEN 2.1-xx, PSEN 2.2p- xx, PSEN 2.2-xx, where xx can be any number between 00 and 99, may be followed by additional suffix numbers and/or letters.

## **NRNT7.GuideInfo**

### **Switches, Industrial Control Certified for Canada**

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## **[Industrial Control Equipment Certified for Canada] Switches, Industrial Control Certified for Canada**

### **Guide Information**

This listing covers the following products:

Magnetically operated switches

Manually operated switches

Meter switches

Photoelectric switches

Solid state switches

Switches rated in horsepower and with or without pilot duty ratings for use in control circuits are listed under "Motor Controllers" .

Open type switches are listed for use as parts of equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc. or where open type switches may be employed.

Switches have been tested to determine their acceptability for continuous operation at their marked rated load.

The basic standard used to investigate products in this category is CAN/CSA C22.2 No. 14-M91, Industrial Control Equipment.

The Listing Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL Mark for Canada symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED" , a control number, and the following product name: "Industrial Control Equipment" (or "Ind. Cont. Eq." ).

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The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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## NIMX7.GuideInfo

### Industrial Control Equipment Certified for Canada

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### Industrial Control Equipment Certified for Canada

#### Guide Information for Electrical Equipment for Use in Ordinary Locations Certified for Canada

The listing covers the following products:

Industrial Control Panels

Motor Control Centers

Motor Controllers

Miscellaneous Apparatus

Programmable Controllers

Industrial Control Switches

Industrial control equipment identified with an enclosure type designation or as "Rain tight" or "Rainproof" is intended for use as indicated in (AALZ7).

Industrial Control Equipment, is for use with copper conductors unless marked to indicate which terminals are suitable for use with aluminum conductors. Such marking is independent of any marking on terminal connectors and is on a wiring diagram or other readily visible location.

Industrial Control Equipment, for which accessory kits are available for the field or distributor modification of the basic product or which may be assembled in many forms from separate components are marked to indicate the suitable accessories or separate components which may be used.

If the sealed rating of the operating coil circuit of a magnetically operated industrial control device exceeds 125 volt-amperes, the coil circuit rating is marked on the device.

Overload relays or industrial control equipment incorporating overload relays are identified as to their maximum tripping time at 600 per cent of the overload relay current element trip rating. The designations "Class 10, Class 20, and Class 30" are used to identify the maximum tripping times, with the Class number indicating the maximum tripping time in seconds. Overload relays with maximum tripping times of 10 or 30 seconds are marked Class 10 or Class 30 respectively. Overload relays with a maximum tripping time of 20 seconds may be marked Class 20. Overload relays with tripping times in excess of 30 seconds are marked with their maximum tripping times. All unmarked overload relays have a maximum tripping time of 20 seconds.

There are open, across-the-line starters intended for bolt on mounting to panelboards and dead front switchboards and are so restricted by the Listing Mark. They are provided with a cover or door and the remaining portions of the enclosure are provided by the panel or switchboard enclosure.

Some industrial control equipment is suitable for use as service equipment and may be so marked. Such marking is part of the Listing Mark or is an integral part of other required markings.

Some industrial control equipment incorporates neutrals factory bonded to the frame or enclosure. Such units are marked "Suitable Only For Use As Service Equipment."

Open type across-the-line starters designed only for use in panelboards or dead front switchboards employ Listing Marks with the product identity "INDUSTRIAL CONTROL EQUIPMENT FOR USE IN PANELBOARDS AND DEAD FRONT SWITCHBOARDS" or "IND. CONT. EQ. FOR USE IN PANELBOARDS AND DEAD FRONT SWITCHBOARDS."

For other than industrial control panels, enclosed type product Listing Marks contain the product identity "INDUSTRIAL CONTROL EQUIPMENT" or the abbreviation "IND. CONT. EQ." on the enclosure, or the product identity "INDUSTRIAL CONTROL EQUIPMENT ENCLOSED" on the mechanism mounted within the enclosure. In either case, the Listing Mark indicates that the overall product with its enclosure is Listed.

Enclosures for use with open type products employ Listing Marks with the product identification "Enclosure For Industrial Control Equipment" or "Enclosure For Ind. Cont. Eq." and are marked to specify the Listed open type products to be installed within. Look for a Listing Mark on both the enclosure and the open mechanism.

The "Enclosed Industrial Control Panel" and "Industrial Control Panel" Listing Marks cover both the enclosure and the panel provided with it. Open panels employ the "Open Industrial Control Panel" Listing Mark. The "Industrial Control Panel Enclosure" Listing Mark covers only the enclosure; the compatibility of the enclosure and the installed equipment and associated wiring has not been investigated unless an "Enclosed Industrial Control Panel" Listing Mark is also present.

"Drip-proof" equipment is so constructed that falling moisture or dirt does not interfere with the successful operation of the equipment.

"Watertight" equipment is so constructed that water does not enter the enclosure when subjected to a stream of water.

Equipment classed "Drip-proof" or "Watertight" is marked to indicate this fact.

The basic standard used to investigate products in this category is CAN/CSA C22.2 No. 14-M91, Industrial Control Equipment.

The Listing Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL Mark for Canada symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED", a control number, and one of the following product names as appropriate: "Industrial Control Equipment" (or "Ind. Cont. Eq.").

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