

## Data sheet

750-410

**2-CHANNEL DIGITAL INPUT MODULE DC 24 V  
PROXIMITY SWITCH POSITIVE SWITCHING CARRIER RAIL DIN 35**



## Technical data

Package size 1 piece.

|   |                          |
|---|--------------------------|
| No. of inputs                           | 2                        |
| CURRENT CONSUMPTION (INTERNAL) mA       | 2.5 mA                   |
| Voltage via power jumper contacts (max) | DC 24 V (-15% / + 20%)   |
| Signal voltage (0)                      | DC -3 V ... +5 V         |
| Signal voltage (1)                      | DC 11 V ... 30 V         |
| Input filter (ms)                       | 3 ms                     |
| Current supply (typ)                    | 8 mA                     |
| Internal data width (Bit)               | 2 Bit                    |
| Operating temperature                   | 0 °C ... + 55 °C         |
| Storage temperature                     | -25 °C ... +85 °C        |
| Relative air humidity                   | 95 %                     |
| Vibration resistance                    | acc. IEC 60068-2-6       |
| Shock resistance                        | acc. IEC 60068-2-27      |
| Degree of protection                    | IP 20                    |
| EMC immunity to interference            | acc. EN 50082-2 (96)     |
| EMC emission of interference            | per EN 50081-1 (93)      |
| UL 508                                  | E175199, UL 508          |
| KEMA                                    | 01ATEX1024X Eex nA II T4 |
| Conformity marking                      | CE                       |
| Isolation                               | 500 V system / supply    |
| Cross section from [mm <sup>2</sup> ]   | 0.08 mm <sup>2</sup>     |
| Cross section to [mm <sup>2</sup> ]     | 2.5 mm <sup>2</sup>      |
| Cross section from [AWG]                | 28 AWG                   |

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|                        |            |
|------------------------|------------|
| Cross section to [AWG] | 14 AWG     |
| Voltage CSA            | 24 V       |
| Weight                 | 48.5 g     |
| Color                  | light grey |
| Height                 | 64 mm      |
| Height                 | 2.52 in    |
| Width                  | 12 mm      |
| Width                  | 0.472 in   |
| Depth                  | 100 mm     |
| Depth                  | 3.937 in   |
| Strip length from      | 8 mm       |
| Strip length to        | 9 mm       |
| Strip length           | 0.33 in    |

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| Approval | Voltage | Current | Approval number | Notes |
|----------|---------|---------|-----------------|-------|
| CSA      | 24      |         | 154112-1043296  |       |
| cULus    | 24      |         | E175199         |       |
| KEMA-Ex  |         |         | KEMA00ATEX1024U |       |

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| Accessories  | Item number       |
|--|-------------------|
| ALUMINIUM CARRIER RAIL 35 X 7.5 MM, 1.5 MM / 0.059 IN THICK          | 210-196           |
| CAL FIELDBUS COUPLER 10 kBaud - 1 MBaud                              | 750-305           |
| CANopen ECO FIELDBUS COUPLER D-Sub 10 kBaud - 1 MBaud                | 750-348           |
| CANopen ECO FIELDBUS COUPLER MSS 10 kBaud - 1 MBaud                  | 750-347           |
| CANopen FIELDBUS COUPLER 10 kBaud - 1 MBaud                          | 750-307           |
| CANopen FIELDBUS COUPLER 10 kBaud - 1 MBaud                          | 750-337           |
| CANopen FIELDBUS COUPLER WITH D-SUB                                  | 750-338           |
| CANopen PROGRAMMABLE FIELDBUS CONTROLLER 10 kBaud - 1 MBaud          | 750-837           |
| CANopen PROGRAMMABLE FIELDBUS CONTROLLER WITH D-SUB                  | 750-838           |
| CC-LINK 156 kBaud - 10 MBaud   | 750-310           |
| COPPER CARRIER RAIL 35 X 15 MM, 2.3 MM / 0.091 IN THICK              | 210-198           |
| DeviceNet ECO FIELDBUS COUPLER 125-500 kBaud                         | 750-346           |
| DeviceNet FIELDBUS COUPLER 125-500 kBaud                             | 750-306           |
| DEVICENET PROGRAMMABLE FIELDBUS -CONTROLLER 125-500 kBaud            | 750-806           |
| END MODULE CARRIER RAIL DIN 35                                       | 750-600           |
| ETHERNET TCP/IP FIELDBUS COUPLER 10 MBit/s                           | 750-342           |
| ETHERNET TCP/IP FIELDBUS COUPLER 10/100 Mbit/s                       | 750-341           |
| FIRE WIRE FIELDBUS COUPLER DIGITAL AND ANALOG SIGNALS                | 750-339           |
| I/O-LIGHTBUS FIELDBUS COUPLER 2.5 MBaud                              | 750-300           |
| I/O-LIGHTBUS FIELDBUS COUPLER 2.5 MBaud                              | 750-320           |
| Individual wire jumpers  | individual jumper |
| INTERBUS ECO FIELDBUS COUPLER 2 MBaud                                | 750-345           |
| INTERBUS ECO FIELDBUS COUPLER 500 kBaud                              | 750-344           |
| INTERBUS FIELDBUS COUPLER 500 kBaud                                  | 750-324           |
| INTERBUS FIELDBUS COUPLER DIGITAL AND ANALOG SIGNALS                 | 750-304           |
| INTERBUS FIELDBUS COUPLER DIGITAL AND ANALOG SIGNALS                 | 750-334           |
| INTERBUS PROGRAMMABLE FIELDBUS CONTROLLER DIGITAL AND ANALOG SIGNALS | 750-804           |
| IP65 ENCLOSURE SHEET STEEL   | 850-811           |
| IP65 ENCLOSURE SHEET STEEL   | 850-812           |
| IP65 ENCLOSURE SHEET STEEL   | 850-813           |
| LON DATA EXCHANGE COUPLER (PEER TO PEER) 78 kbps                     | 750-319/004-000   |
| LON FIELDBUS COUPLER 78 kbps   | 750-319           |
| LONWORKS PROGRAMMABLE FIELDBUS COUPLER 78 kbps                       | 750-819           |
| MARKERS FOR GROUP MARKER CARRIERS MARKER CARD DIN A4 (160 MARKERS)   | 750-100           |
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                             | 248-501           |
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                             | 248-501/000-002   |
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                             | 248-501/000-005   |
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                             | 248-501/000-006   |
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                             | 248-501/000-007   |

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|  |                               |
|--|-------------------------------|
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                                 | 248-501/000-012               |
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                                 | 248-501/000-017               |
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                                 | 248-501/000-023               |
| MINIATURE WSB QUICK MARKING SYSTEM PLAIN                                 | 248-501/000-024               |
| MODBUS FIELDBUS COUPLER RS 232 / 1,2 - 115,2 kBaud                       | 750-316                       |
| MODBUS FIELDBUS COUPLER RS 232 / 150 - 19200 Baud                        | 750-314                       |
| MODBUS FIELDBUS COUPLER RS 485 / 1,2 - 115,2 kBaud                       | 750-315                       |
| MODBUS FIELDBUS COUPLER RS 485 / 150 - 19200 Baud                        | 750-312                       |
| MODBUS PROGRAMMABLE FIELDBUS CONTROLLER RS 232 / 1,2 - 115,2 kBaud       | 750-816                       |
| MODBUS PROGRAMMABLE FIELDBUS CONTROLLER RS 232 / 150 - 19200 Baud        | 750-814                       |
| MODBUS PROGRAMMABLE FIELDBUS CONTROLLER RS 485 / 1,2 - 115,2 kBaud       | 750-815                       |
| MODBUS PROGRAMMABLE FIELDBUS CONTROLLER RS 485 / 150 - 19200 Baud        | 750-812                       |
| MODULE BUS EXTENSION, COUPLER MODULE                                     | 750-628                       |
| MODULE BUS EXTENSION, END MODULE   | 750-627                       |
| MP-BUS (MULTI POINT-BUS) MASTER MODULE CARRIER RAIL DIN 35               | 750-643                       |
| Open individual wire jumpers ends  | individual jumper<br>open end |
| POWER SUPPLY PASSIVE   | 750-613                       |
| POWER SUPPLY UNIT PRIMARY TRIGGERED                                      | 787-903                       |
| POWER SUPPLY UNIT PRIMARY TRIGGERED                                      | 787-904                       |
| POWER SUPPLY UNIT PRIMARY TRIGGERED                                      | 787-912                       |
| PROFIBUS DP ECO FIELDBUS COUPLER 12 MBaud                                | 750-343                       |
| PROFIBUS DP FIELDBUS COUPLER 1,5 MBaud                                   | 750-331                       |
| PROFIBUS DP FIELDBUS COUPLER 12 MBaud                                    | 750-323                       |
| PROFIBUS DP/FMS FIELDBUS COUPLER 1,5 MBaud                               | 750-301                       |
| PROFIBUS DP/FMS FIELDBUS COUPLER 12 MBaud                                | 750-303                       |
| PROFIBUS DP/V1 FIELDBUS COUPLER 12 MBaud                                 | 750-333                       |
| PROFIBUS DP/V1 PROGRAMMABLE FIELDBUS CONTROLLER 12 MBaud                 | 750-833                       |
| PROFINET IO FIELDBUS COUPLER 100 Mbit                                    | 750-340                       |
| PROFINET PROGRAMMABLE FIELDBUS CONTROLLER 100 Mbit                       | 750-840                       |
| RADIO RECEIVER MODULE CARRIER RAIL DIN 35                                | 750-642                       |
| RAIL-MOUNTED MODULES - POWER SUPPLYUNITS WITH UNIVERSAL MOUNTING CARRIER | 288-808                       |
| RAIL-MOUNTED MODULES - POWER SUPPLYUNITS WITH UNIVERSAL MOUNTING CARRIER | 288-809                       |
| RAIL-MOUNTED MODULES - POWER SUPPLYUNITS WITH UNIVERSAL MOUNTING CARRIER | 288-810                       |
| RAIL-MOUNTED MODULES - POWER SUPPLYUNITS WITH UNIVERSAL MOUNTING CARRIER | 288-812                       |
| RAIL-MOUNTED MODULES - POWER SUPPLYUNITS WITH UNIVERSAL MOUNTING CARRIER | 288-813                       |

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### 2-CHANNEL DIGITAL INPUT MODULE DC 24 V PROXIMITY SWITCH POSITIVE SWITCHING CARRIER RAIL DIN 35

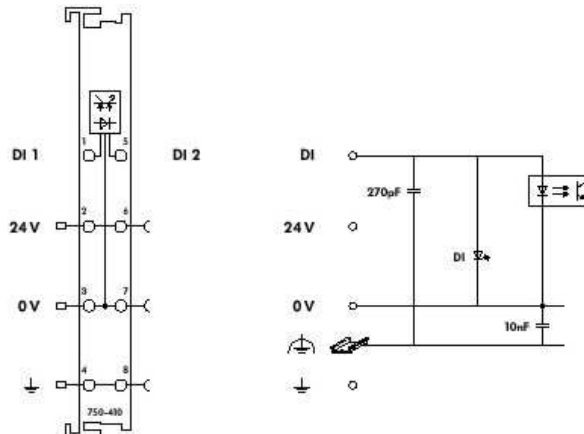
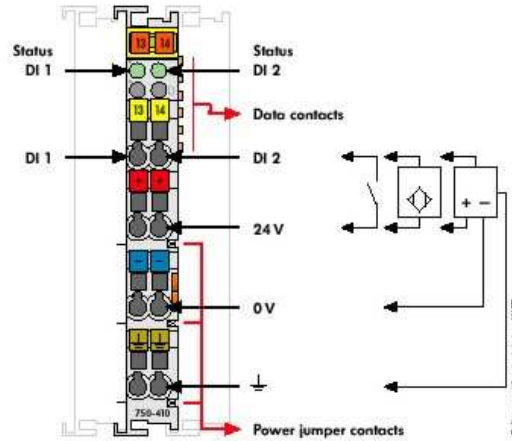
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|   |                 |
|---|-----------------|
| RAIL-MOUNTED MODULES - POWER SUPPLY UNITS WITH UNIVERSAL MOUNTING CARRIER | 288-814         |
| RAIL-MOUNTED MODULES - POWER SUPPLY UNITS WITH UNIVERSAL MOUNTING CARRIER | 288-815         |
| SCREEN CLAMPING SADDLE 11 MM / 0.433 IN WIDE                              | 790-108         |
| SCREEN CLAMPING SADDLE 19 MM / 0.741 IN WIDE                              | 790-116         |
| SCREEN CLAMPING SADDLE 27 MM / 1.053 IN WIDE                              | 790-124         |
| SCREEN CLAMPING SADDLE 43 MM / 1.677 IN WIDE                              | 790-140         |
| SCREWDRIVER Type 1, bar (2,5 x 0,4) mm                                    | 210-119         |
| SCREWDRIVER Type 2, bar (3,5 x 0,5) mm                                    | 210-120         |
| SCREWDRIVER WITH PARTIALLY INSULATED SHAFT Type 1, bar (2,5 x 0,4) mm     | 210-619         |
| SCREWDRIVER WITH PARTIALLY INSULATED SHAFT Type 2, bar (3,5 x 0,5) mm     | 210-620         |
| SCREWLESS END STOP 10 MM / 0.394 IN WIDE                                  | 249-117         |
| SDS FIELDBUS COUPLER DIGITAL AND ANALOG SIGNALS                           | 750-313         |
| SEPARATION MODULE CARRIER RAIL DIN 35                                     | 750-616         |
| STEEL CARRIER RAIL 35 X 15 MM, 1.5 MM / 0.059 IN THICK                    | 210-114         |
| STEEL CARRIER RAIL 35 X 15 MM, 1.5 MM / 0.059 IN THICK                    | 210-197         |
| STEEL CARRIER RAIL 35 X 15 MM, 1.5 MM / 0.059 IN THICK                    | 210-506         |
| STEEL CARRIER RAIL 35 X 15 MM, 1.5 MM / 0.059 IN THICK                    | 210-508         |
| STEEL CARRIER RAIL 35 X 15 MM, 2.3 MM / 0.091 IN THICK                    | 210-118         |
| STEEL CARRIER RAIL 35 X 15 MM, 2.3 MM / 0.091 IN THICK                    | 210-548         |
| STEEL CARRIER RAIL 35 X 7.5 MM, 1 MM / 0.039 IN THICK                     | 210-112         |
| STEEL CARRIER RAIL 35 X 7.5 MM, 1 MM / 0.039 IN THICK                     | 210-113         |
| STEEL CARRIER RAIL 35 X 7.5 MM, 1 MM / 0.039 IN THICK                     | 210-504         |
| STEEL CARRIER RAIL 35 X 7.5 MM, 1 MM / 0.039 IN THICK                     | 210-505         |
| STEEL IP65 ENCLOSURES 10 MBit/s   | 750-842         |
| STEEL IP65 ENCLOSURES 10/100 Mbit/s                                       | 750-841         |
| STEEL IP65 ENCLOSURES 10/100 Mbit/s                                       | 750-841/025-000 |
| STEPPER MODULE FOR THE WAGO-I/O-SYSTEM 750                                | 750-670         |
| STÜTZELKO-MODUL SMOOTHES UNSTABLE DC 24 V POWER SUPPLIES                  | 288-824         |
| SUPPLY MODULE PASSIVE   | 750-602         |
| SUPPLY MODULE PASSIVE   | 750-612         |
| SUPPLY MODULE WITH FUSE HOLDER  | 750-601         |
| SUPPLY MODULE WITH FUSE HOLDER / DIAGN.                                   | 750-610         |

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### 2-CHANNEL DIGITAL INPUT MODULE DC 24 V PROXIMITY SWITCH POSITIVE SWITCHING CARRIER RAIL DIN 35



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PROXIMITY SWITCH POSITIVE SWITCHING CARRIER RAIL DIN 35**

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The digital input module receives the control signal from digital field devices (sensors, etc).

The module is a 2-channel, 4-conductor device and sensors with a ground (earth) wire may be directly connected to the module.

Each input module has a noise-rejection filter. This filter is available with different time constants. An optocoupler is used for electrical isolation between the bus and the field side.

**A 2-wire proximity switch can be connected to this module.**