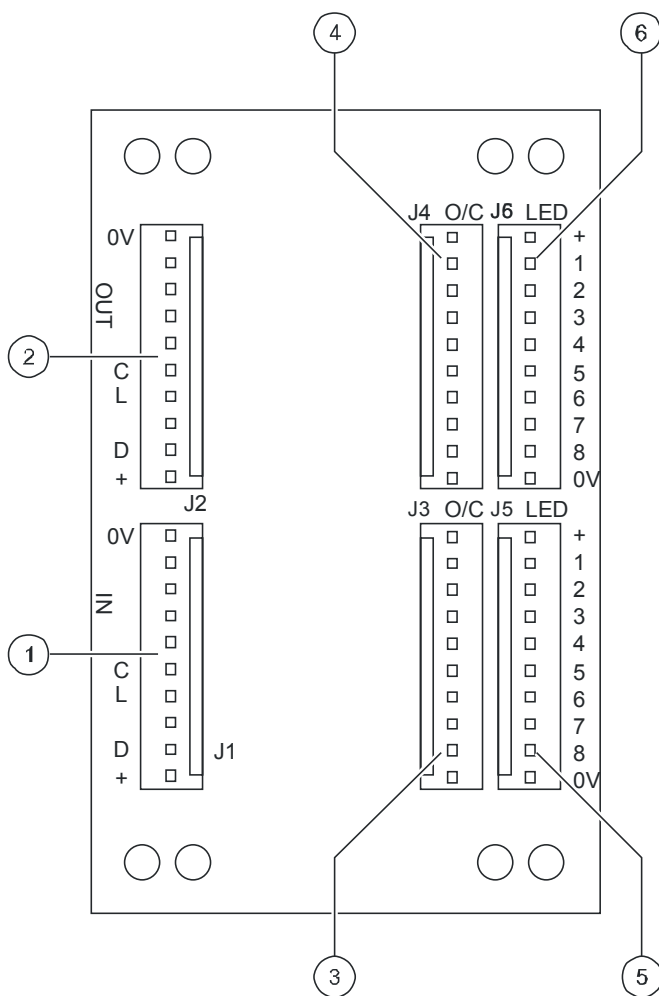


TS0842 16-Way Clocked Open Collector Card Installation Sheet

Description

TS0842 16-Way Clocked Open Collector Cards add 16 x 50 mA open collector outputs or LED outputs to Challenger panels, 4-Door or 4-Lift Controllers, or to standard DGPs.

Figure 1: TS0842 layout and connectors



1. J1 connector from Challenger panel, Intelligent Access Controller, standard DGP, or from a TS0841 or TS0842 card via ten-way LEV8-10-500P cable (supplied)
2. J2 connector to TS0841 or TS0842 cards for additional outputs or relays (if applicable)
3. J3 connector to eight open collector outputs
4. J4 connector to eight open collector outputs
5. J5 connector to eight LEDs via onboard 1.5 kΩ resistors
6. J6 connector to eight LEDs via onboard 1.5 kΩ resistors

When connected to a Challenger panel or a 4-Door or 4-Lift Controller, multiple TS0842 modules can be daisy-chained to expand the number of outputs at the panel's or the DGP's address. The workable limit for a series of relays or outputs is about 144, which limits the number of 16-Way Open Collector Cards to a total of 9.

Product contents

Quantity	Item
1	TS0842 16-Way Clocked Open Collector Card with ten-way cable
1	Installation Sheet
4	M3 x 10 mm pan head screws
4	PCB standoffs

Inspect the package and contents for visible damage. If any components are damaged or missing, do not use the unit; contact the supplier immediately. If you need to return the unit, you must ship it in the original box.

Installation

TS0842 modules are mounted on standoffs (supplied) using M3 x 10 mm pan head screws (supplied) inside a DGP enclosure or a separate enclosure. The TS0842 PCB is size 'B'.

NOTICE! A qualified service person, complying with all applicable codes, should perform all required hardware installation.

To install the module:

1. Disconnect the plug pack and battery from the panel or DGP.
2. Insert four standoffs (supplied) into the DGP enclosure or a separate enclosure at a location suitable for the ten-way cable to connect the TS0842 module to the control panel, DGP, or other module, as needed.
3. Use four M3 x 10 pan head screws to fix the TS0842 board to the standoffs.
4. Connect the ten-way cable to the control panel, DGP, or other module.
5. Connect the required output cables to J3, J4, J5, and J6 connectors, as required (see "Output wiring" on page 2).
6. Reapply power to the panel or DGP.

Wiring

Input wiring

Connect the module via J1 using the supplied ten-way cable to one of the following devices (the connector number varies with the device):

- J14 on a Challenger V8 panel
- J21 on a 4-Door or 4-Lift Controller
- J8 on a standard TS0820 or TS0824 DGP
- J2 on another TS0842 card
- J3 on a TS0841 8-way clocked relay card

Contact technical support for connection details of older devices such as Challenger panels version V5, V6, or V7.

Output wiring

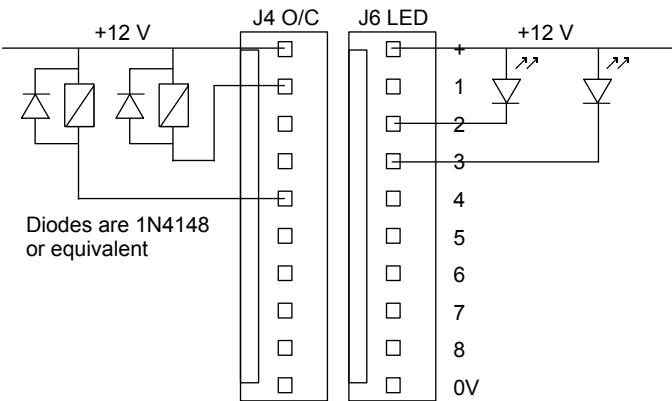
Pin	J6 (LED)	J5 (LED)	J4 (O/C)	J3 (O/C)
1	+12 V	+12 V	+12 V	+12 V
2	Output 1	Output 9	Output 1	Output 9
3	Output 2	Output 10	Output 2	Output 10
4	Output 3	Output 11	Output 3	Output 11
5	Output 4	Output 12	Output 4	Output 12
6	Output 5	Output 13	Output 5	Output 13
7	Output 6	Output 14	Output 6	Output 14
8	Output 7	Output 15	Output 7	Output 15
9	Output 8	Output 16	Output 8	Output 16
10	0 V	0 V	0 V	0 V

Note: The actual output numbers depend on the location of the module within the Challenger numbering system.

Figure 2 below shows an example of output wiring where:

- Outputs 1 and 4 are open collector outputs to relays
- Outputs 2 and 3 operate LEDs

Figure 2: Example of output wiring



Specifications

TS0842 specifications

Voltage	12 to 13.8 VDC supplied by Challenger panel, DGP, or auxiliary power supply
Number of outputs	16 open collector outputs or 16 LED outputs (via onboard 1.5 kΩ resistors)
Open collector rating	50 mA at 12V (plus any current drawn by devices connected to the +12 V pin on the output connectors)
Challenger panel max.	16 modules (counted as two relay controllers)
4-Door/Lift max.	16 modules (counted as two relay controllers)
Standard DGP max.	1 module
Connection	Ten-way cable (supplied)
Dimensions (W × H)	‘B’ size board (52 × 80 mm)

Regulatory information

Manufacturer	UTC Fire & Security Australia Pty Ltd Level 1, 271–273 Wellington Road, Mulgrave, VIC, 3170, Australia
Year of manufacture	The first two digits of the product serial number (located on the product identification label) are the year of manufacture.
Compliance	 N4131 NOTICE! This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Disclaimer

The customer is responsible for testing and determining the suitability of this product for specific applications. In no event is UTC Fire & Security Pty Ltd (trading as Interlogix) responsible or liable for any damages incurred by the buyer or any third party arising from its use, or their inability to use the product.

Contact information

For contact information, see www.utcfs.com.au.