

Technical Information

Safety Manager SC



Direct Landing Adapter- FC-TUDL01

12 October 2026, Version 1.0

Revision History

Revision	Date	Description
1.0	12 October 2026	Initial release

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1 Overview

This document provides technical information on Direct landing adapter (FC-TUDL01) of Safety Manager SC solution for Safety systems. This adapter is used with Safety universal IO module (FC-PUIO01 and FC-TUIO11)

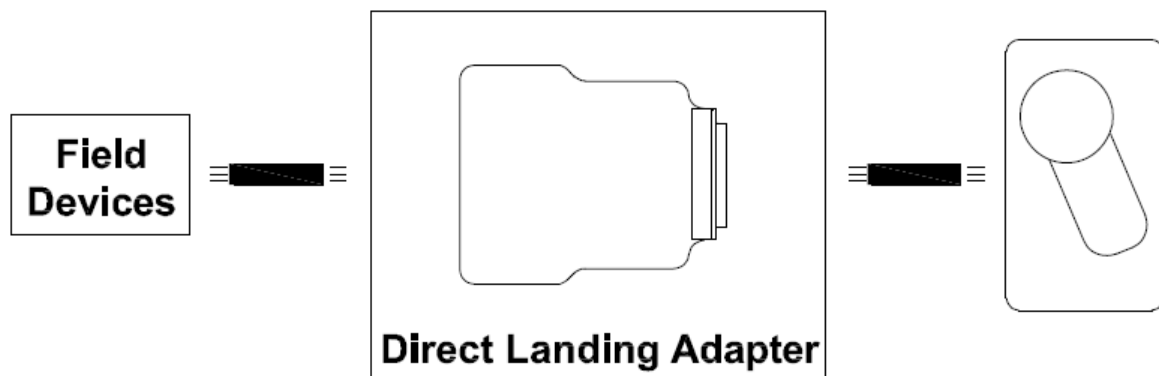
2 Function

The FC-TUDL01 is a direct landing adapter designed for the safety universal IO module FC-PUIO01. It connects directly to the sub-D connector (CN1 or CN2) of the redundant IO terminal assembly FC-TUO11, facilitating a direct connection for field devices.

3 Features

- Direct landing adapter
- Powered from IO channel. No external power is required
- Support AI, AO, DO, DI (line monitored) with jumper installed and DI (Non-line monitored) without jumper.

4 Connections



5 Detail Specifications

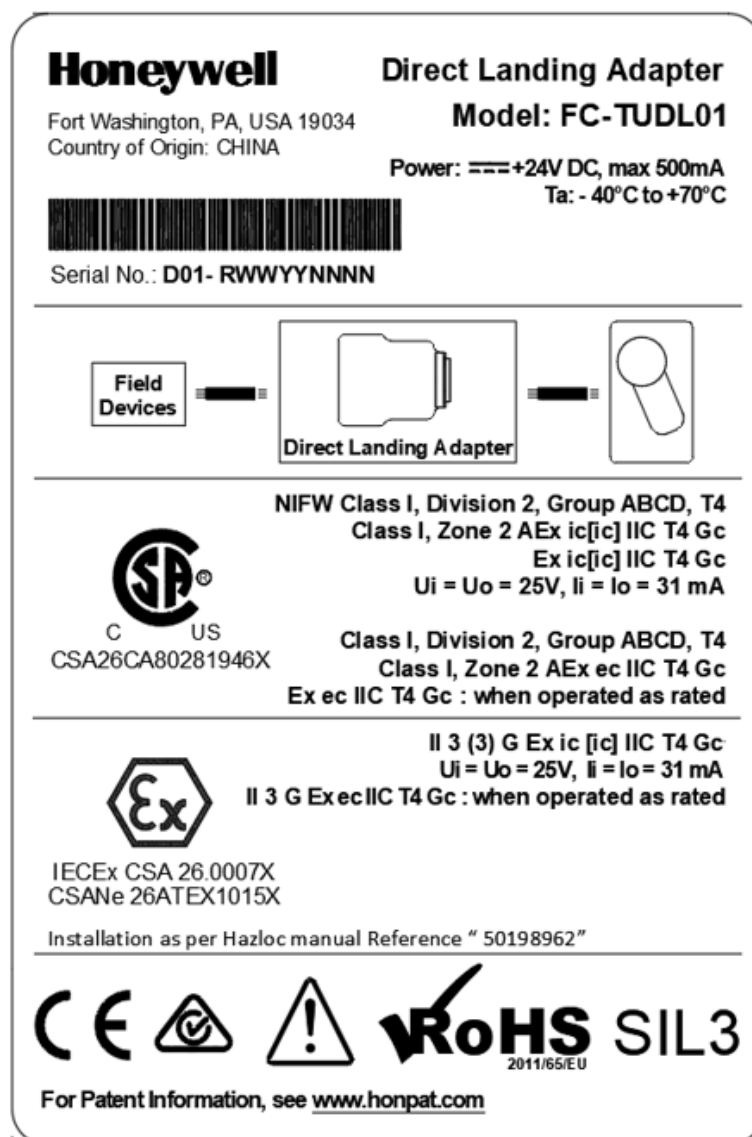
Parameter	Specifications
IO Terminal Assembly	FC-TUIO11
Input/Output Module	FC-PUIO01 Safety Universal IO Module
Number of Channels	16
Physical Specification	
Dimensions	143mm (L) x 121mm (W) x30mm (H)
Assembly option	Sub-D connector (37 position)
Ambient Conditions	
Ambient temperature (operation)	-40°C to +70°C
Ambient temperature (storage/transport)	-40°C to +85°C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Vibration	IEC 60068-2-6: 10 Hz to 58 Hz – 0.075 mm; 58 Hz to 150 Hz – 1 G IEC 61131-2: 5 Hz to 8.4 Hz - 3.5 mm; 8.4 Hz to 150 Hz - 1G. EN 50156-1: 5Hz to 150 Hz - VL3, VH3, VS3, According to EN 60654-3.
Shock	IEC 60068-2-27; 15 G for 11 ms, 3 axes
Electrical Specifications	
Safe side interface	
Supply Voltage	Nominal voltage +24 VDC, +30%, -15% from IO channel
Maximum channel current	500 mA
Interface to IOTA	37 pin Sub-D connector
Field interface	
Connection	Screw terminal connection
Field wire gauge	14 AWG – 24 AWG (2.5mm ² - 0.25mm ²)
Compliance	
Ingress protection	FC-TUDL01 is placed inside safety manager cabinet and has an IP rating of IP54
Flammability rating	V0 as per UL 94
Conformance	IEC/EN/CSA/UL 60079-0 IEC/EN/CSA/UL 60079-7 IEC/EN/CSA/UL 60079-11 IEC/EN/UL 61010-1; CSA C22.2 No. 61010-1-12 IEC/EN/UL 61010-2-201; CAN/CSA-C22.2 61010-2-201
EMC directive	2014/30/EU
ATEX/IEC Ex	EX Ic IIC T4 Gc EX ec IIC T4 Gc

USA/Canada	Class I Division 2, Group A, B, C, D, T4 Class I, Zone 2 AEx/Ex ic [ic] IIC T4 Gc Class I Division 2, Group A, B, C, D, T4 Class I, Zone 2 AEx/Ex ec IIC T4 Gc
Compliance	RoHS

List of modules supported

	IO module	IOTA	IO type
1	FC-PUIO01	FC-TUIO11	Universal safety I/O

6 Label



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Automation & Control Solutions

Honeywell
Technologies

2101 CityWest Blvd.
Houston, Texas 77042

Honeywell House, Arlington Business Park,
Bracknell, Berkshire, England RG12 1EB UK

Shanghai City Centre, 100 Junyi Road
Shanghai, China 20051
www.process.honeywell.com