

7705 40-channel, Single-pole Control Module

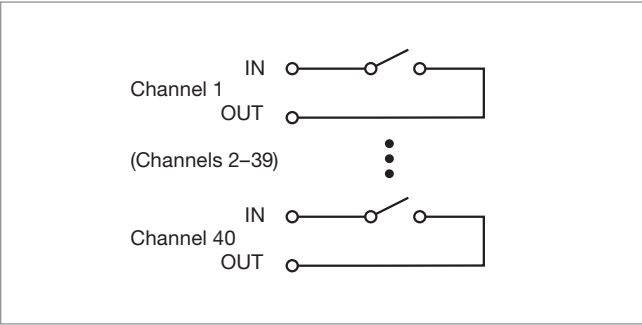
Datasheet



The 7705 plug-in module offers 40 channels of independent switching. These channels are designed to control power to the DUT and switching loads. They can also directly control light indicators, relays, etc.

Key Features

- 300 V, 2 A capacity
- Two 50-pin female D-sub connectors are standard for secure hook-up and quick teardown
- Relay closures stored in onboard memory



Specifications

Inputs	
Maximum Signal Level	300 VDC or rms, 2 A switched, 60 W (DC, resistive), 125 VA (AC, resistive).
Contact Life	No Load¹: 10 ⁸ closures. At Maximum Signal Levels: 10 ⁵ closures. 1. Minimum signal level 10 mV, 10 μ A.
Channel Resistance (per conductor)	<1 Ω .
Contact Potential	$\leq$ 4 μ V per contact.
Offset Current	<100 pA.
Actuation Time	3 ms.
Isolation	Channel to Channel: >10 ⁹ Ω , <50 pF. Common Mode: >10 ⁹ Ω , <100 pF.
Crosstalk (1 MHz, 50 Ω load)	<-35 dB.
Insertion Loss (50 Ω source, 50 Ω load)	<0.3 dB below 1 MHz, <3 dB below 10 MHz.
Common Mode Voltage	300 V between any terminal and chassis.

General

Relay Switch Configuration	40 independent channels of 1-pole switching. Isolated from internal DMM.
Contact Configuration	1 pole Form A.
Relay Type	Latching electromechanical.
Connector Type	Two 50-pin female D-sub connectors.
Environmental and Safety	
Operating Environment: Specified for 0° to 50°C. Specified to 80% R.H. at 35°C.	
Storage Environment: -25° to 65°C.	
EMC: Conforms to European Union EMC Directive.	
Safety: Conforms to European Union Low Voltage Directive	
RoHS: Conforms to European Union RoHS Directive	
Weight	0.45 kg (1 lb).

Supplied Accessories

7703-306A	50-pin D-Sub Male Shell Connector Kit, quantity 2
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Available Accessories

7705-MTC-2	50 Pin Male to Female D-sub Cable, 2 m (6.6 ft).
7788	50-pin D-Sub male connector kit, quantity 2
7790	50-pin male, 50-pin female, 25-pin male D-shell IDC connectors

Available Services

7705-3Y-EW	1-year factory warranty extended to 3 years from date of shipment
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Ordering Information

7705	40-channel, Single-pole Control Module
Warranty	1 year

Contact Information:

Australia* 1 800 709 465
Austria 00800 2255 4835
Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Belgium* 00800 2255 4835
Brazil +55 (11) 3759 7627
Canada 1 800 833 9200
Central East Europe / Baltics +41 52 675 3777
Central Europe / Greece +41 52 675 3777
Denmark +45 80 88 1401
Finland +41 52 675 3777
France* 00800 2255 4835
Germany* 00800 2255 4835
Hong Kong 400 820 5835
India 000 800 650 1835
Indonesia 007 803 601 5249
Italy 00800 2255 4835
Japan 81 (3) 6714 3010
Luxembourg +41 52 675 3777
Malaysia 1 800 22 55835
Mexico, Central/South America and Caribbean 52 (55) 56 04 50 90
Middle East, Asia, and North Africa +41 52 675 3777
The Netherlands* 00800 2255 4835
New Zealand 0800 800 238
Norway 800 16098
People's Republic of China 400 820 5835
Philippines 1 800 1601 0077
Poland +41 52 675 3777
Portugal 80 08 12370
Republic of Korea +82 2 6917 5000
Russia / CIS +7 (495) 6647564
Singapore 800 6011 473
South Africa +41 52 675 3777
Spain* 00800 2255 4835
Sweden* 00800 2255 4835
Switzerland* 00800 2255 4835
Taiwan 886 (2) 2656 6688
Thailand 1 800 011 931
United Kingdom / Ireland* 00800 2255 4835
USA 1 800 833 9200
Vietnam 12060128

* European toll-free number. If not accessible, call: +41 52 675 3777



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