

Signal Relays OEG

## **Signal PCB Relay TSC**

- 1pole, 1A, 1 form C (CO)
- 2.54mm terminal pitch same as I.C. socket terminal pitch

Typical applications
Telecommunications, office machine



# **FL** @

Approvals
UL E82292, CSA LR48471-189
Technical data of approved types on request

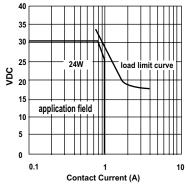
Contact Data	
Contact arrangement	1 form C (CO)
Rated voltage	24VDC, 120VAC
Max. switching voltage	30VDC, 120VAC
Rated current	1A
Switching power	120VA, 24W
Contact material	AgNi Alloy
Min. recommended contact load	1mA at 1VDC
Initial contact resistance	50mΩ at 100mA, 6VDC
Frequency of operation	72000 ops/h
Operate/release time max.	5/5ms
Electrical endurance	
1A, 120VAC, resistive,	$100x10^{3}$ ops.
1A, 24VDC, resistive,	$100x10^3$ ops.
Contact ratings	1A, 120VAC/24VDC
Mechanical endurance	10x10 <sup>6</sup> operations

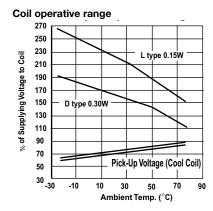
Coil Data	
Coil voltage range	5 to 24VDC

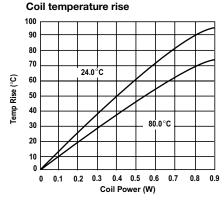
Coil versions, DC coil								
Coil	Rated	Operate	Release	Coil	Rated coil			
code	voltage	voltage	voltage	resistance	power			
	VDC	VDC	VDC	Ω±10%	mW			
Standard coil, 300mW								
05	5	3.75	0.25	83	300			
06	6	4.5	4.5 0.3 12		300			
09	9	6.75	0.45	270	300			
12	12	9.0	0.6	480	300			
24	24	18.0	1.2	1.920	300			
Sensitive coil 150mW								
05	5	3.75	0.25	166	150			
06	6	4.5	0.3	240	150			
09	9	6.75	0.45	540	150			
12	12	9.0	0.6	960	150			
24	24	18.0	1.2	3840	150			

All figures are given for coil without pre-energization, at ambient temperature +23°C.

### Max DC load breaking capacity







Insulation Data		
Initial dielectric strength		
between open contacts	400V <sub>rms</sub>	
between contact and coil	10000V <sub>rms</sub>	
Initial surge withstand voltage		
between contact and coil	1500V (10/160µs)	
Clearance/creepage		
between contact and coil	2.0/1.5mm	



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# Signal PCB Relay TSC (Continued)

# Other Data Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="https://www.tycoelectronics.com/customersupport/rohssupportcenter">www.tycoelectronics.com/customersupport/rohssupportcenter</a> Ambient temperature -30 to 80°C Category of environmental protection IEC 61810 RTII - flux proof,

RTIII - wash tight

Vibration resistance (functional) 10 to 50Hz, 1.5mm double amplitude

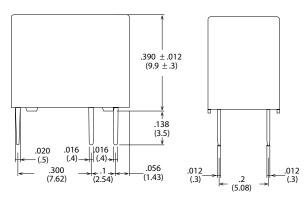
Shock resistance (functional)

Resistance to soldering heat THT

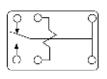
IEC 60068-2-20 260°C/5s

Packaging/unit tube/50 pcs., box/2000 pcs.

### **Dimensions**

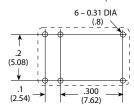


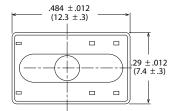


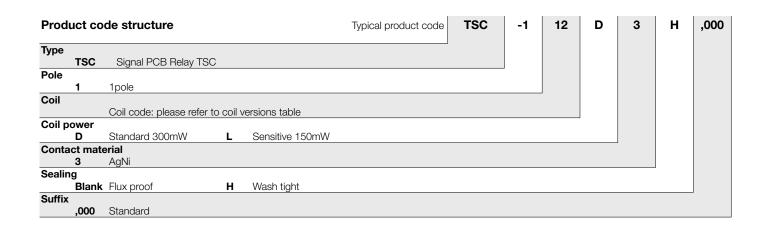




Bottom view on solder pins







Product code	Version	Contact	Cont.material	Coil power	Coil voltage	Sealing	Part number
TSC-105D3H,000	1A	1 form C (CO)	AgNi Alloy	300mW	5VDC	Wash tight	1-1419130-0
TSC-112D3H,000					12VDC		2-1419130-1
TSC-124D3H,000					24VDC		5-1440007-3
TSC-105L3H,000				150mW	5VDC		1-1419130-2
TSC-112L3H,000					12VDC		2-1419130-4
TSC-124L3H,000					24VDC		2-1419130-8