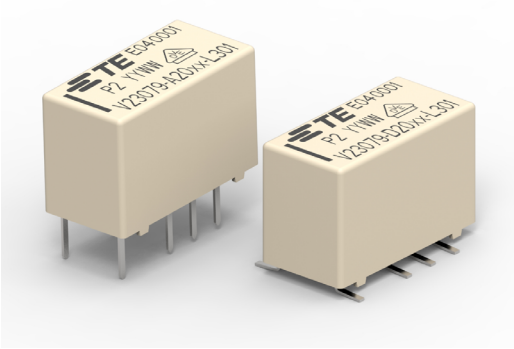
AXICOM P2 LIGHTING RELAY

SIGNAL RELAYS

FEATURES

- Relay for LED tubes meeting EN62776 and VDE
- Slim line 15x7.5 mm (.590x.295")
- 2 form C bifurcated contacts (2 changeover contacts, 2 CO)
- Immersion cleanable
- High sensitivity for low power consumption 140 mW/ 200 mW
- High dielectric strength
- 0.75/1.5 mm contact gap



APPLICATIONS

- LED tubes applications

APPROVALS

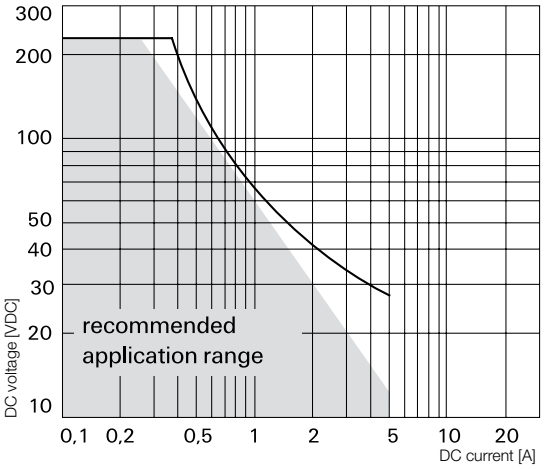
- VDE Cert. No. 40047571

Technical data of approved types on request.

CONTACT DATA

Contact arrangement	2 form C (CO)
Max. switching voltage	220 VDC, 250 VAC
Rated current	2 A
Limiting continuous current, 85 °C	2A
Switching Power	60 W, 62.5 VA
Contact material	AgNi, gold-covered
Contact style	bifurcated contact
Minimum switching voltage	100 µV
Thermoelectrical potential	<10 µV
Initial contact resistance	50 mΩ @ 10 mA, 20 mV
Frequency of operation, without load	50 operations/s
Operate time	typ. 2 ms, max. 4 ms
Set/reset time	typ. 2 ms, max. 4 ms
Release time	
Without diode in parallel	typ. 2 ms, max. 4 ms
With diode in parallel	typ. 4 ms, max. 6 ms
Bounce time	typ. 1ms, max. 3ms
Contact ratings, IEC 61810	
at 0.5 A/125 VAC/85 °C/resistive	100 k cycles, NO contact
at 1 A/30 VDC/ 85 °C/resistive	100 k cycles, CO contact

MAX. DC LOAD BREAKING CAPACITY



COIL DATA

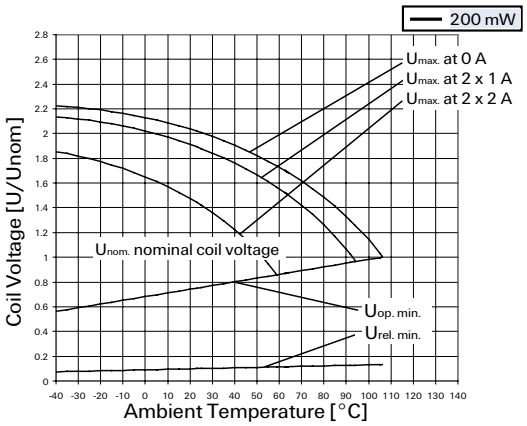
Magnetic system	polarized
Coil voltage range	3 to 24VDC
Max. coil temperature	105°C
Thermal resistance 3.2	< 125K/W

COIL VERSIONS, DC-COIL

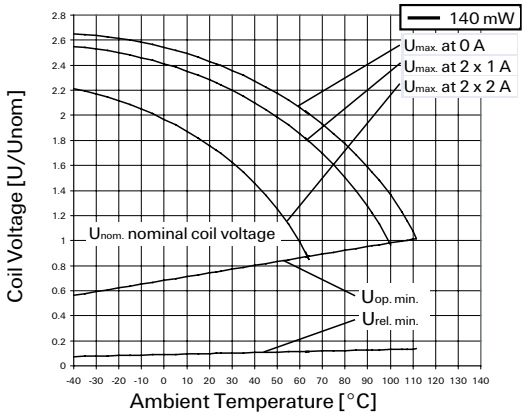
Coil code	Rated voltage VDC	Operate voltage VDC	Limiting voltage VDC	Release voltage VDC	Coil resistance Ω ±10%	Rated coil power mW
Coil versions, monostable lighting relay						
008	3.00	2.25	6.1	0.3	45	200
016	4.00	3.00	8.1	0.4	80	200
011	4.50	3.38	9.1	0.45	101	200
001	5.00	3.75	10.1	0.5	125	200
002	6.00	4.50	12.1	0.6	180	200
006	9.00	6.75	18.2	0.9	405	200
003	12.00	9.00	24.2	1.2	720	200
005	24.00	19.00	48.4	2.4	2500	225
Bistable, 1 coil lighting relay						
108	3.00	2.25	6.5	0.3	64	140
111	4.50	3.38	9.8	0.45	145	140
101	5.00	3.75	10.9	0.5	178	140
102	6.00	4.50	13.0	0.6	257	140
106	9.00	6.75	19.6	0.9	578	140
103	12.00	9.00	26.15	1.2	1028	140

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

COIL VERSIONS, MONOSTABLE LIGHTING RELAY



BISTABLE, 1 COIL LIGHTING RELAY



INSULATION DATA

	LED
Initial dielectric strength	
Between open contacts	1500 Vrms
Between contact and coil	3000 Vrms
Between adjacent contacts	1500 Vrms
Initial insulation resistance at 500 Vdc	> 10^9 Ω
Clearance / creepage	
clearance according to IEC / EN 60950	>1.5 mm
creepage according to IEC / EN 60950	>1.5 mm
open contact gap	≥ 0.75 mm
using contacts in serial according to EN62776	≥ 1.5 mm

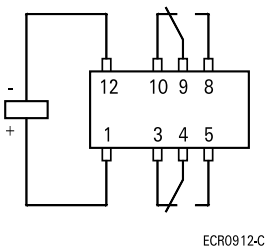
OTHER DATA

Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter
Ambient temperature	-40 to +85 °C
Category of environmental protection	
IEC 61810	RT III - wash tight
Vibration resistance (functional)	35g, 10 to 1000Hz
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	100 g
Terminal type	PCB-THT SMT long and short terminals
Weight	max. 2.8 g
Resistance to soldering heat THT	
IEC 60068-2-20	265 °C/ 10 s
Moisture sensitive level, JEDEC J-Std-020D related only to SMT relays packed in orginal dry-packs	MSL3
Ultrasonic cleaning	not recommended
Packaging/unit	
THT	Box/2000 pcs.
SMT	Reel/2000 pcs. or 2500 pcs.

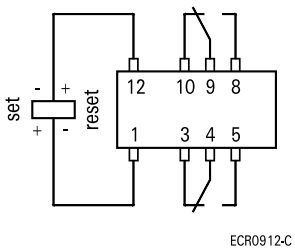
TERMINAL ASSIGNMENT

TOP view on component side of PCB

Monostable version



Bistable version, 1-coil



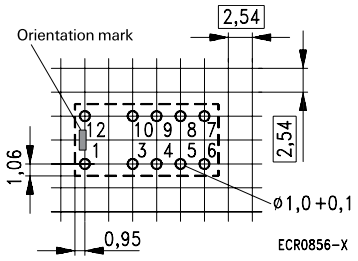
Note:

Contacts are shown in reset condition. Both coils can be used as either set or reset coils. Contact position might change during transportation and must be reset before use.

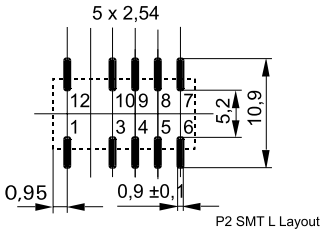
PCB LAYOUT

TOP view on component side of PCB

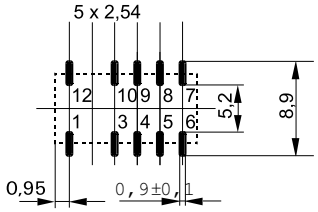
THT version



SMT, long terminals



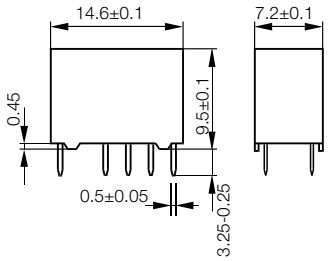
SMT, short terminals



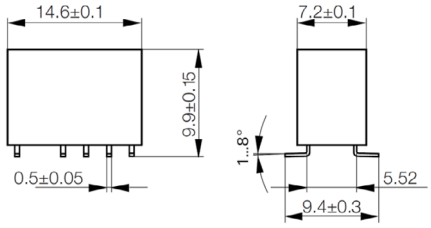
DIMENSIONS (Unit: mm)

Overmolded coil, high dielectric version

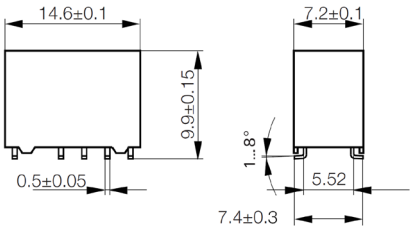
THT version



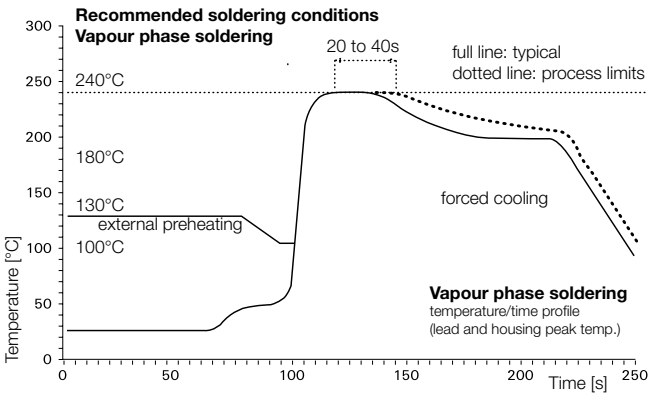
SMT, long terminals

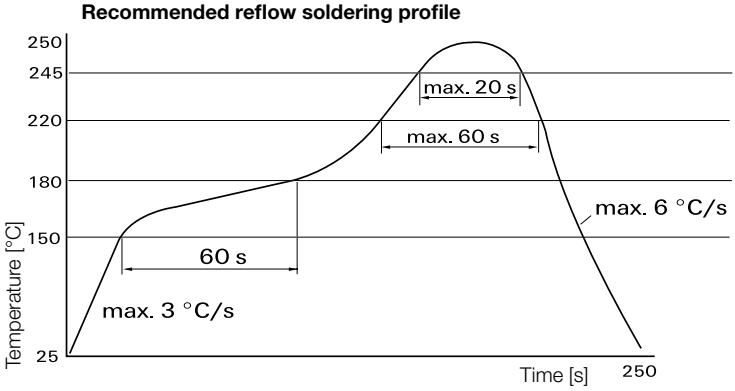


SMT, short terminals

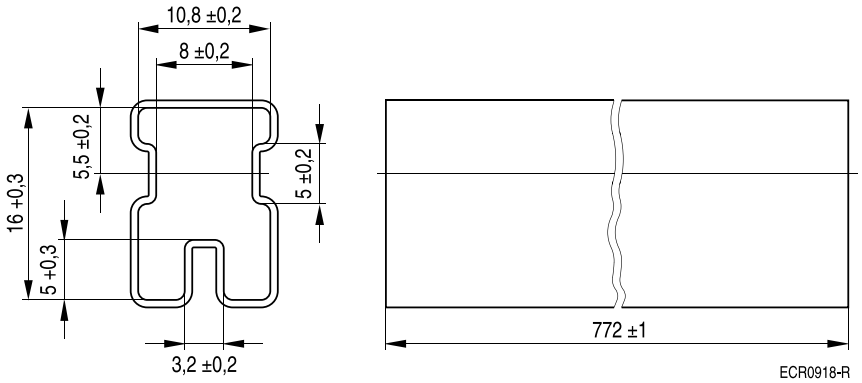


PROCESSING

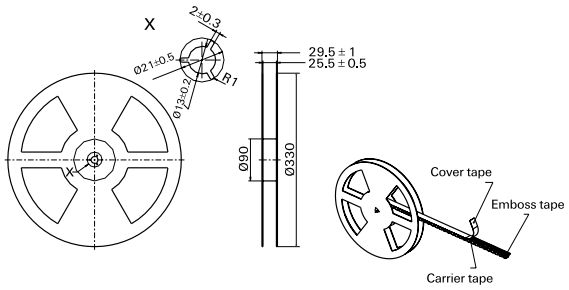


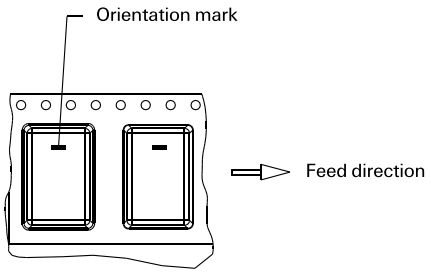


PACKING

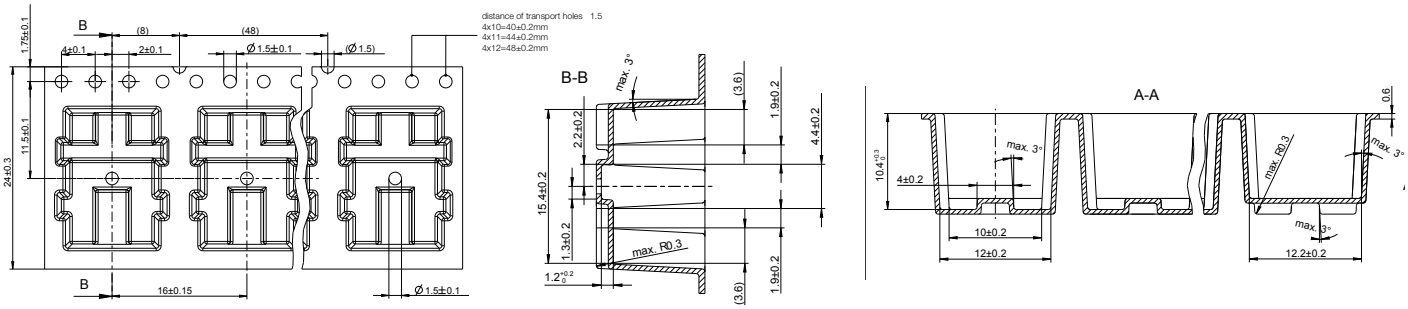


REEL DIMENSIONS

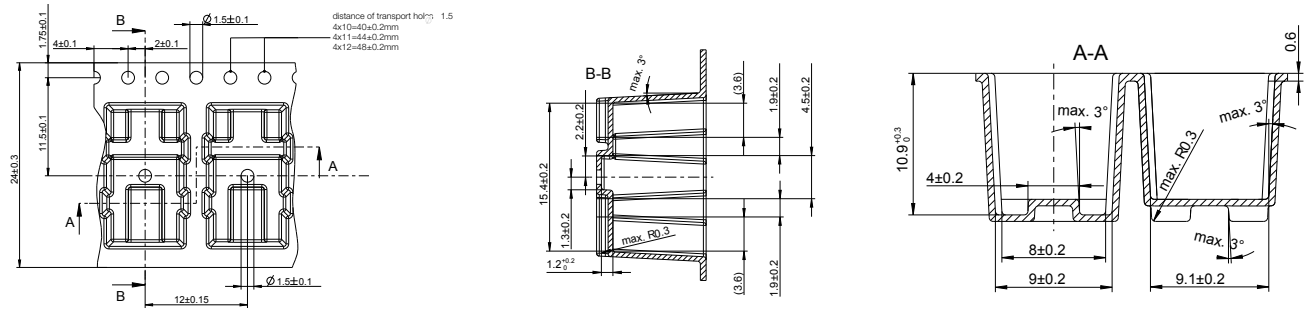




SMT - Long terminals



SMT - Short terminals



ORDERING INFORMATION

Part Number
V23079 A 2 001 B 301

Type

V23079	Signal Relay P2 Series

Version

A	THT, monostable
C	THT, latching, 1 coil
D	SMT, monostable, long term
F	SMT, latching, 1 coil long term
G	SMT, monostable, short term
J	SMT, latching, 1 coil short term

Coil design

2	Overmolded coil

Contacts

301	**for standard version** 2 form C contacts (2 CO), AgNi +Au

Version

L	LED Version

Coil

Coil code: please refer to coil versions table

PRODUCT INFORMATION

Product code	Version	Coil type	Coil voltage	Part number
V23079-A2001-L301	THT	Monostable	5VDC	1422008-6
V23079-A2006-L301			9VDC	1-1422008-1
V23079-A2003-L301			12VDC	1422008-7
V23079-D2003-L301	SMT			1422008-9
V23079-G2003-L301				1422009-1
V23079-J2111-L301		Bistable, 1 coil	4.5VDC	1422008-8
V23079-A2005-L301	THT	Monostable	24VDC	1-1422008-2
V23079-D2005-L301	SMT			5-1422008-2

te.com

©2024 TE Connectivity Ltd. All Rights Reserved.

TE Connectivity, SCHRACK, TE connectivity (logo) and Every Connection Counts are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any changes to the information contained herein without prior notice. TE Connectivity assumes only those obligations set forth in the terms and conditions for this product and shall in no event be liable for any incidental, indirect, or consequential damages arising out of the sale, resale, use, or misapplication of the product. TE expressly disclaims any implied warranties with respect to the information contained herein, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. Dimensions, specifications and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications and/or information. Users of TE Connectivity products must make their own assessment as to whether the respective product is suitable for the respective desired application.

08/24 ED

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

1-962915-1 2380312-2 3430B2F51RTDF 917696-1 175977-2 CRGCQ2010J3K3 SMW73R0JT 1393431-1 2005330-1 1-794222-0 1903112-2 650075-000 CPF0402B37K4E1 TE50BR39J 1743455-2 2834055-1 936348-1 RH73H2A40MKTN U5254-000005-030PA 141991-2 1969656-1 2310537-1 3-1393225-0 ROX05SJ18R SBCHE154R7K SBCHE64R7K 2-292161-3 2377783-2 3631B101LL MPT100C18RF