

Miniature PCB Relay PE bistable

- Polarized histable version
- 1 pole 5 A, 1 form C (CO) or 6A, 1 form A (NO) contact
- Sensitive version with 200mW coil
- Ambient temperature 70°C
- Low height 10.0mm
- Plastic materials according to IEC 60335-1 (domestic appliances)

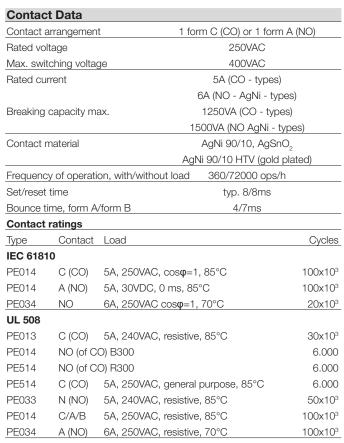
Typical applications

Room thermostats, electricity meters, home automation, white goods, battery powered controls.



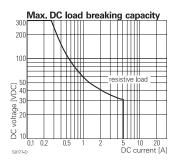
VDE Cert. No. 40011901 (for AgNi90/10 contacts only), UL E214025

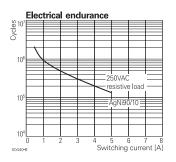
Technical data of approved types on request



Mechanical endurance

>5x10⁶ operations









Coil Data	
Magnetic system	bistable, polarized
Coil voltage range	2.2 to 48VDC
Operative range, IEC 61810	2
Reset voltage max., % of rated coil	voltage 120% at -40°C
Min./Max. energization duration	20ms1)/1min at <10% duty factor
1) Information on reduced pulse duration w	rith higher energization voltages on demand.

Coil versions, bistable 1 coil	Coil	versions,	bistal	ole 1	COI
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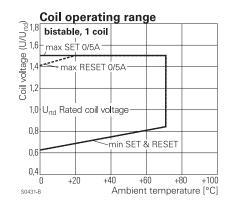
Coil		Rated	Set	Reset	Coil	Rated coil
code	2)	voltage	voltage	voltage	resistance	power
		VDC	VDC	VDC	Ω±10%	mW
F02	H02	2.2	1.65	1.65	22	220
F03	H03	3	2.25	2.25	41	220
F05	H05	5	3.75	3.75	125	200
F06	H06	6	4.5	4.5	180	200
F12	H12	12	9.0	9.0	650	222
F24	H24	24	18.0	18.0	2750	209

2) Coil codes F.. and H..have opposite polarity; refer to coil operation table All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

Coils - operation

Version	F		H
Coil terminals	A1	A2	A1 A2
Operate	+	-	- +
Reset	-	+	+ -

Contact position not defined at delivery





Miniature PCB Relay PE bistable (Continued)

Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	4000V _{rms}	
Initial insulation resistance		
open contact circuit	$>10x10^{9}\Omega$	
coil-contact circuit	>10x10°Ω	
Clearance/creepage		
between contact and coil	≥3.2/4mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250V	

Other Data Material complian

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

www.te.com/customersupport/rohssupportcenter

Resistance to heat and fire according EN60335, par.30
Ambient temperature -40 to 85°C

70°C at 100% duty factor

Category of environmental protection

IEC 61810 RTII - flux proof

RTIII - wash tight on request

10,0 max

F12

Shock resistance (destructive) >100g Shock resistance (functional/ 11ms), form A/form B >15/5g

Terminal type PCB-THT

Resistance to soldering heat THT

Typical product code

IEC 60068-2-20 260°C/10s (flux proof version) 260°C/5s (wash tight version)

Packaging/unit tube/25 pcs., box/500 pcs.

20,0 max

Dimensions

PE

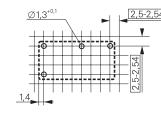
PCB Layout / terminal assignment

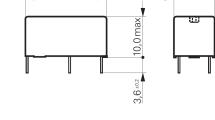
 \emptyset 1,3^{+0,1}

Bottom view on solder pins

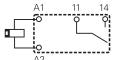
1 form C (CO) version

1 form A (NO) version





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Product code structure

PE Miniature PCB Relay PE bistable

Version

Type

Flux proof 5 Wash tight (on request)

Contact configuration

1 1 form C (CO) contact 3 1 form A (NO) contact

Contact material

 4
 AgNi 90/10
 3
 AgSnO2
 5
 AgNi 90/10 HTV (gold plated)

Coil

Coil code: please refer to coil versions table

Product code	Version	Contacts	Contact material	Coil	Part number
PE514F03	wash tight			bistable	2-1415539-0
PE014F02	flux proof	1 form C	AgNi 90/10	polarity F	9-1415389-1
PE014F03		1 CO contact			1415390-1
PE014F05					1-1415390-1
PE014F06					2-1415390-1
PE014F12					3-1415390-1
PE014F24					5-1415390-1
PE014H02				bistable	7-1415390-1
PE014H03				polarity H	8-1415390-1
PE014H05					9-1415390-1
PE014H06					1415391-1
PE014H12					1-1415391-1
PE014H24					2-1415391-1
PE015F05		1 form C	AgNi 90/10 HTV	bistable	3-1415542-4
PE034F09		1formA	AgNi 90/10	polarity F	1415543-7
PE034F12		1 NO contact			1415544-4

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