

Miniature PCB Relay PE bistable

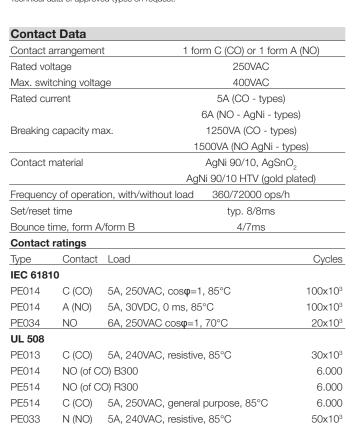
- Polarized bistable version
- 1 pole 5 A, 1 form C (CO) or 6A, 1 form A (NO) contact
- Sensitive version with 200mW coil
- Ambient temperature 70°C
- Low height 10.0mm
- Plastic materials according to IEC 60335-1 (domestic appliances)

Typical applications

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

Approvals

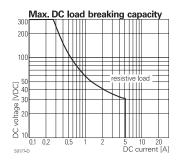
VDE Cert. No. 40011901 (for AgNi90/10 contacts only), UL E214025 Technical data of approved types on request.





5A, 250VAC, resistive, 85°C

6A, 250VAC, resistive, 70°C

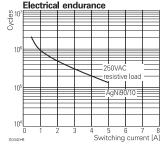


C/A/B

A (NO)

PE014

PE034



100x10³

100x103





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	20ms ¹⁾ /1min at <10% duty factor		
1) Information on reduced pulse duration with higher energization voltages on demand.			

Coil versions, bistable 1 coil

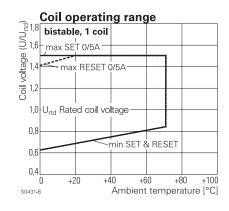
	Coil		Rated	Set	Reset	Coil	Rated coil
code ²⁾		2)	voltage	voltage	voltage	resistance	power
			VDC	VDC	VDC	Ω±10%	mW
	F02	H02	2.2	1.65	1.65	22	220
	F03	H03	3	2.25	2.25	41	220
	F05	H05	5	3.75	3.75	125	200
	F06	H06	6	4.5	4.5	180	200
	F12	H12	12	9.0	9.0	650	222
	F24	H24	24	18.0	18.0	2750	209

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	$>10x10^{9}\Omega$		
Clearance/creepage			
between contact and coil	≥3.2/4mm		
Material group of insulation parts	Illa		
Tracking index of relay base	PTI250V		

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

according EN60335, par.30 Resistance to heat and fire 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

Shock resistance (destructive) >100gShock 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.

Dimensions

PE

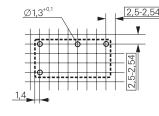
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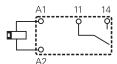
PCB Layout / terminal assignment

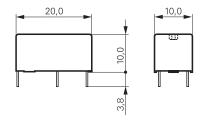
Bottom view on solder pins

1 form C (CO) version

1 form A (NO) version







F12

Product code structure

PE Miniature PCB Relay PE bistable

Version

Type

Wash tight (on request)

Flux proof **Contact configuration**

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

Contact material

AgNi 90/10 AgSnO, 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

Mouser Electronics

Authorized Distributor

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TE Connectivity:
PE014F03