

PNOZsigma safety relay (standalone), inputs: 1/2-channel wiring with/without detection of shorts across contacts, manual/automatic start, outputs: 2 N/O, 2 N/O t-d (t = 0.04 - 300 s), 1 SC, UB = 24 V DC, width: 22.5 mm, plug-in spring-loaded terminals, monitoring of E-STOP, safety gates, light curtain.

Technical details

General data	
Approval:	CCC, CE, UKCA, cULus Listed, KOSHA, EAC (Eurasian), TÜV
Technical data	
Electrical data	
Supply voltage (V):	24 - 24 V
Type of supply voltage U1:	DC
Power consumption DC:	4 W
Inputs	
Number of inputs:	2
Semiconductor outputs	
Number of semicond. outputs:	1
Utilisation cat. to EN 60947-1:	DC-12
Relay outputs	
Utilisation cat. AC/DC1 stand.:	EN 60947-4-1
Voltage AC1 safety cont.:	240 V
Max. current AC1 safety cont.:	6 A
Voltage DC1 safety cont.:	24 V
Max. current DC1 safety cont.:	6 A
Utilisation cat. AC15/DC13sta.:	EN 60947-5-1
Voltage AC15 safety cont.:	230 V

Max. current AC15 safety cont.:	3 A
Voltage DC13 safety cont.:	24 V
Safety contacts: AC at UL:	240 VAC G.U. (same polarity)
Safety contacts: pilot duty:	R300, B300
Relay contact material:	AgCuNi
Addit. contact details relay:	+ 0.2 µm Au
Environmental data	
Climatic suitability to ...:	EN 60068-2-78
Ambient temperature:	-10 - 55 °C
Humidity rating:	93 % r. h. at 40 °C
Condensation permitted?:	Not permitted
EMC to standard ...:	EN 60947-5-1, EN 61000-6-2, EN 61000-6-4, EN 61326-3-1
Vibration to standard ...:	EN 60068-2-6
Clearance & creepage dist. to:	EN 60947-1
Overvoltage category:	III / II
Pollution degree clear.&creep.:	2
Times	
Selectable times:	0.8 s, 0.4 s, 0.2 s, 0.3 s, 15 s, 1.5 s, 2.5 s, 25 s, 35 s, 0.5 s, 0.6 s, 7 s, 6 s, 3 s, 5 s, 4 s, 210 s, 150 s, 0.1 s, 0.04 s, 8 s, 90 s, 80 s, 60 s, 50 s, 20 s, 40 s, 30 s, 16 s, 1 s, 2 s, 70 s, 0.7000000000000001 s, 100 s, 120 s, 300 s, 200 s, 140 s, 160 s, 3.5 s, 180 s, 14 s, 240 s, 12 s, 10 s
Tolerance Tv:	+/-1 % + +/-20 ms
Repetition accuracy:	+/-1 % + +/-20 ms
Tolerance in event of error:	+/-15 % + +/-20 ms
Max. delay time formula:	tv + 15 % + 20 ms
Mechanical data	
Mounting position:	any
Housing material lower section:	PC
Housing material front plate:	PC
Housing material upper part:	PC

Connection terminal:	Spring-loaded terminal
Terminal style:	plug-in
Height dimension:	100 mm
Width dimension:	22.5 mm
Depth dimension:	120 mm
Net weight:	235 g
Gross weight:	245 g
Environment	
RoHS directive:	2011/65/EU, 2015/863/EU
RoHS conformity:	yes
RoHS exceptions:	yes
RoHS except.s acc. to direct.:	34, 7a, 6c, 7c I
REACH compliance:	contains min. 1 SVHC-substance
REACH included substances:	Lead, Lead oxide
%-part of the pollutant:	> 0,1
CAS No.:	7439-92-1, 1317-36-8
WEEE classification (08/2018):	5 devices (feed size < 50cm)
Commercial data	
Harmonized System Code:	85364900
ECLASS version:	ECLASS-9.1
ECLASS Reference Feature:	27371819
ETIM Version:	ETIM-7.0
ETIM Reference Group:	EG000019
ETIM Reference Feature:	EC001449

Optional accessories

750010

PNOZ s terminator plug (10 pieces)

750910

PNOZ s nIE

750900

PNOZ s pIE

751004

PNOZ s Setspring loaded terminals 22,5mm
