



PNOZsigma safety relay (standalone), inputs: incremental encoder, proximity switch, outputs: 2 N/O, 2 N/C, UB: 24 -240 V AC/DC, width: 45 mm, monitoring of standstill, speed, speed range, position, direction, analogue voltage (track S), display handling push & turn, plug-in screw terminals, expansion with PNOZsigma contact expansion.

Technical details

General data

Approval: CCC, CE, UKCA, cULus Listed, EAC (Eurasian), TÜV

Technical data

Electrical data

Supply voltage (V): 48 - 240 V

Type of supply voltage U1: AC/DC

Power consumption AC: 9 VA

Power consumption DC: 5.5 W

Supply voltage 2 (V): 24 - 24 V

Type of supply voltage U2: DC

Max. device circuit breaker: Max. conductor cross section

Input proximity switch

Prog. mon.fun. wo hyst prox sw: 10 mHz - 1,000 kHz

Input incremental encoder

Connection (increment encoder): 8-pin RJ-45 female connector

Phase pos. diff.sign. inc. enc.: 90° ±30°

Prog. mon. fun. wo hyst. incr.: 10 mHz - 1,000 kHz

Reset input

Semiconductor inputs: 4

Analogue outputs

Number of analogue outputs:	1
Type of analogue outputs:	Current
Signal range analog output:	4 .. 20 mA, 0 .. 20 mA
Semiconductor outputs	
Number of semicond. outputs:	4
Tolerance ext. volt. DC S/C:	-20 %/+20 %
Relay outputs	
Utilisation cat. AC/DC1 stand.:	EN 60947-4-1
Voltage AC1 safety cont.:	240 V
Max. current AC1 safety cont.:	4 A
Voltage DC1 safety cont.:	24 V
Max. current DC1 safety cont.:	4 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)
Relay contact material:	AgCuNi
Addit. contact details relay:	+ 0.2 µm Au
Environmental data	
Climatic suitability to ...:	EN 60068-2-78
Ambient temperature:	-20 - 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 61000-6-3, EN 61326-3-1
Vibration to standard ...:	EN 60068-2-6
Clearance & creepage dist. to:	EN 60947-1
Overvoltage category:	II
Pollution degree clear.&creep.:	2

Times	
Reaction time over limit value:	1/f_actual + 16ms
Mechanical data	
Mounting position:	horizontal on top hat rail
Housing material lower section:	PC
Housing material front plate:	PC
Housing material upper part:	PC
Connection terminal:	Screw terminal
Terminal style:	plug-in
Flex. cond. c/s AWG info:	24 - 12 AWG
Height dimension:	98 mm
Width dimension:	45 mm
Depth dimension:	120 mm
Net weight:	405 g
Gross weight:	425 g
Environment	
REACH compliance:	contains min. 1 SVHC-substance
WEEE classification (08/2018):	5 devices (feed size < 50cm)
Commercial data	
ECLASS version:	ECLASS-9.1
ECLASS Reference Feature:	27371811
ETIM Version:	ETIM-7.0
ETIM Reference Group:	EG000019

Optional accessories



750040

PNOZ s30 USB-configuration-cable (1,5m)



773880

PNOZ msi b1 Box 15p



779200

PNOZmulti Chipcard Set 10 piece 8KB



773882

PNOZ msi b1 Box 9p



779201

PNOZmulti Chipcard 1 piece 8kb



773860

PNOZ msi6p Adapter Elau 9/9 2,5m



773881

PNOZ msi b0 cable 15/RJ45



779240

PNOZmulti Chipcard Holder (Sparepart)



773859

PNOZ msi6p Adapter Elau 9/9 7,5m



773858

PNOZ msi5p Adapter Bo/Rex 15/15 1,5m



773839

PNOZ msi1 Bp Adapter Si/Ha 25/25 5m



773872

PNOZ msi S025



773875

PNOZ msi 17p Bos/Rex 15/15 4,0m



750014

PNOZ s Set3screw terminals 45mm



773874

PNOZ msi15p Adapter Tendo 15/15 2,5m



773855

PNOZ msi11p Adapter Cable 1,5m



773854

PNOZ msi10p Adapter Cable 2,5m



773879

PNOZ MSI20P PARKER HD 15/15 2,5M



773857

PNOZ msi5p Adapter Bo/Rex 15/15 2,5m



773878

PNOZ msi14p Leroy 15/15 2,5m



773856

PNOZ msi 9p adapter cable 5m



750030

PNOZsigma Chip Card-manager set



779211

Chipcard 1 piece 32kB



779212

PNOZmulti Chipcard Set 10 pieces 32kB



750010

PNOZ s terminator plug (10 pieces)



773871

PNOZ msi S15



773870

PNOZ msi S09



750031

SmartCardCommander with SIM-card-adapter



779250

PNOZmulti Seal 12 pieces



779230

PNOZ Chip Card Reader



773869

PNOZ msi13p Fanuc 20/20 2,5m



773847

PNOZ MSI19P ADAPTER ELAU PACDrive3 2,5m



773862

PNOZ msi8p Adapter Lenze 9/9 2,5m



773884

PNOZ msi b0 cable 25/RJ45



773840

PNOZ msi1Ap Adapter Si/Ha 25/25 2,5m












773861

PNOZ msi6p Adapter Elau 9/9 1,5m



773883

PNOZ msi b1 Box 25p

	773864	PNOZ msi7p Adapter SEW 15/15 2,5m
	773842	PNOZ msi3Ap Adapter Si/Ha 15/15 2,5m
	773863	PNOZ msi8p Adapter Lenze 9/9 1,5m
	773841	PNOZ msi1Bp Adapter Si/Ha 25/25 2,5m
	773844	PNOZ msi1AP Adapter Si/Ha 25/25 5m
	773865	PNOZ msi7p Adapter SEW 15/15 1,5m
	773843	PNOZ msi3Bp Adapter Si/Ha 15/15 2,5m
	773868	PNOZ msi12p Rockwell 15/15 2,5m
	773846	PNOZ MSI19P ADAPTER ELAU PACDrive3 1,5m



773867

PNOZ msi16p ADAPTER Baumuell 15/15 2,5m



773845

PNOZ msi b4 Box