

PNOZsigma brake control and monitoring device, safe braking in accordance with PL e and SIL 3, UB = 24 V DC, 2x 5 A, display operation push & turn, plug-in spring-loaded terminals, safe control of inductive loads (for example valves, mechanical holding brakes).



## Technical details

General data	
Approval:	CE, CCC, UKCA, cULus Listed, TÜV, EAC (Eurasian)
Technical data	
Electrical data	
Purpose of U1:	System supply
Supply voltage (V):	24 - 24 V
Type of supply voltage U1:	DC
Power consumption DC:	18 W
Device circuit breaker U1:	4 A, Autom 24 VDC, Char.B/C
Potential isolation U1:	No
Purpose of U2:	Supply 2pole SC outputs
Supply voltage 2 (V):	24 - 48 V
Type of supply voltage U2:	DC
Tolerance of U2:	-10 %/+20 %
Potential isolation U2:	Yes
Inputs	
Number of inputs:	8
No. s/c inputs failsafe:	4
No. s/c inputs standard:	4
Potential isolation input:	No

Semiconductor outputs	
Number of semicond. outputs:	0
SC outp. 1p. short circ.-proof:	YES
Pot. isol. S/C output:	No
Perm. load 1pole Output:	Resistive, Inductive, Capacitive
Semiconductor outputs 2-pole	
Number 2-pin SC outputs:	2
Volt. tol. reduced operation:	-10 %/+10 %
SC outp. 2p. short circ.-proof:	YES
Voltage outputs	
Voltage at supply V o/p:	24 V DC
Supply V o/p short circ. proof:	Yes
Pot. isolation voltage output:	No
Test clock outputs	
Number of test pulse outputs:	2
Environmental data	
Climatic suitability to ...:	EN 60068-2-2, EN 60068-2-1, EN 60068-2-78, EN 60068-2-14
Ambient temperature:	0 - 55 °C
Humidity rating:	93 % r. h. at 40 °C
Condensation permitted?:	Not permitted
Perm. operating height ASL:	2000 m
EMC to standard ...:	EN 61000-4-8, EN 61000-4-4, EN 61000-4-5, EN 61326-3-1, EN 61000-4-6, EN 61000-4-2, EN 61000-4-3
Vibration to standard ...:	EN 60068-2-6
Clearance & creepage dist. to:	EN 60664-1
Overvoltage category:	III
Times	
Ventilation time:	30 ms ... 4000 ms
Engage. time fast shutdown:	30 ms ... 4000 ms

Engage. time slow shutdown:	30 ms ... 4000 ms
Config. overexcitation time:	100 ms ... 2500 ms
Potential separation	
Potential isolation 1 between:	2pole SCO & system voltage
Type of potential isolation 1:	Basic insulation
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:	Spring-loaded terminal
Terminal style:	plug-in
Height dimension:	100 mm
Width dimension:	45 mm
Depth dimension:	120 mm
Net weight:	257 g
Gross weight:	276 g
Environment	
REACH compliance:	contains min. 1 SVHC-substance
WEEE classification (08/2018):	5 devices (feed size < 50cm)
Commercial data	
Harmonized System Code:	85364190
EAN-Code:	4046548066012
ECLASS version:	ECLASS-13
ECLASS Reference Feature:	27371819
ETIM Version:	ETIM-9.0
ETIM Reference Group:	EG000019
ETIM Reference Feature:	EC001449
Volume:	0.6

## Optional accessories

	750030	PNOZsigma Chip Card-manager set
	779211	Chipcard 1 piece 32kB
	779212	PNOZmulti Chipcard Set 10 pieces 32kB
	750031	SmartCardCommander with SIM-card-adaptor
	779240	PNOZmulti Chipcard Holder (Sparepart)
	751008	PNOZ s Set1spring loaded terminals 45mm
	779230	PNOZ Chip Card Reader