

SÄHKÖLUKKO NS

NSD4AZ1SRKF41N005

Sähkölukko NS, napit(v,s,k,hs)2xM12, sähköllä avattava

- OSSD turvaulostulot
- Pitovoima 2100 N
- RFID-anturi
- Muovirunko
- Integroidut ohjauskalusteet



TUOTEKUVAUS

Pizzato NS-sähkölukko RFID-anturilla

Kompakti sähkölukko edistyksellisillä ominaisuuksilla:

- Solenoidilukitus
- Pitovoima 2100 N
- Kosketukseton RFID-anturi
- SIL 3, PL e
- Muovirunko
- Optiona hätäulospainike ja vapautusavain
- LED-merkkivalot
- IP67 (EN 60529) / IP69K (ISO 20653)
- Saatavana myös integroidut ohjauslaitteet sekä kahva RGB LED-valolla

Saatavana lukuisia eri variaatioita. Ota yhteyttä, niin autamme valitsemaan juuri sinun sovellukseesi parhaiten sopivan vaihtoehdon!

TEKNISET TIEDOT

TIEDOT

Liitäntätyyppi	2x M12-liitin, 12 napainen
Sarjaankytkettävä	Kyllä
Min. käyttölämpötila	-20 °C
Max. käyttölämpötila	50 °C

SYÖTTÖ

Syöttöjännite	24 Vdc
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SISÄÄNTULOT JA ULOSTULOT

Turvaulostulot	2x OSSD
Signaaliulostulot	2x PNP

KOTELO

Min. käyttölämpötila	-20 °C
Max. käyttölämpötila	50 °C
IP-luokka	IP65
Lukitus	sähköllä avattava

TURVA-ARVOT JA HYVÄKSYNNÄT

PL	e
SIL	3
IP-luokka	IP65

Safety switch internal connections

Versions with connector		Versions with cable		Connection
M12 connector 12 pins	M12 connector 8 pins with 4-pin extension	M12 connector 8 pins with 4-pin extension	Cable 8x12 pin with 4-pin extension	
3	3	3	White	A2: Supply input 0 V
10	8	8	Purple	B1: Solenoid activation input
10	8	/	Red-Blue	B2: Solenoid activation input
8	2	/	Pink	C3: Signalling output, actuator inserted
8	/	Blue	Red	D4: Signalling output, actuator inserted and locked
8	6	/	Gray	I3: Actuator programming input / reset
2	1	1	Brown	A1: Supply input +24 Vdc
2	/	2	Blue	E1: Safety input
8	/	6	Yellow	E2: Safety input
10	/	/	Gray-Pink	R6: ESDM input (a)
4	4	4	Green	O51: Safety output
7	7	7	Black	O52: Safety output

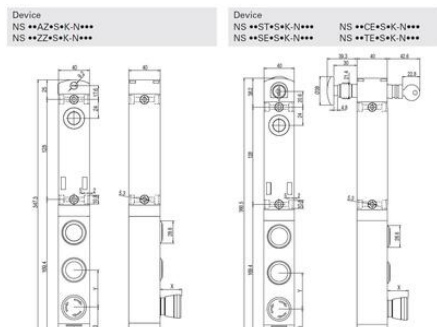
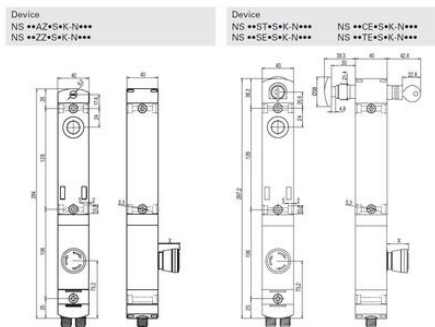
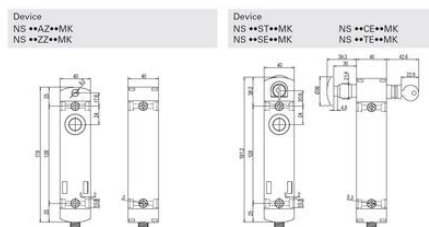
Internal connections (versions with integrated control device unit for 1 device)

Connection	NS -> DSK-NT10	NS -> DSK-NT11	NS -> DSK-NT12
A1: Supply input +24 Vdc	A1 (C) A1	A1 (C) A1	A1 (C) A1
A2: Supply input 0 Vdc	A2 (C) A2	A2 (C) A2	A2 (C) A2
B1: Safety input	B1 (C) B1	B1 (C) B1	B1 (C) B1
O51: Safety output	O51 (C) A2	O51 (C) A2	O51 (C) A2
O52: Safety output	O52 (C) A2	O52 (C) A2	O52 (C) A2
E1: Solenoid activation input for double channel mode	O51 (C) A2	O51 (C) A2	O51 (C) A2
E2: Solenoid activation input for double channel mode	O52 (C) A2	O52 (C) A2	O52 (C) A2
C3: Signalling output, actuator inserted	O51 (C) A2	O51 (C) A2	O51 (C) A2
D4: Signalling output, actuator inserted and locked	O52 (C) A2	O52 (C) A2	O52 (C) A2
I3: Actuator programming input / reset	O51 (C) A2	O51 (C) A2	O51 (C) A2
R6: ESDM input (a)	O51 (C) A2	O51 (C) A2	O51 (C) A2
O5: Solenoid activation input for single channel mode	O51 (C) A2	O51 (C) A2	O51 (C) A2

Internal connections (versions with integrated control device unit for 2 devices)

Connection	NS -> DSK-NT13	NS -> DSK-NT14	NS -> DSK-NT15
A1: Supply input +24 Vdc	A1 (C) A1	A1 (C) A1	A1 (C) A1
A2: Supply input 0 Vdc	A2 (C) A2	A2 (C) A2	A2 (C) A2
B1: Safety input	B1 (C) B1	B1 (C) B1	B1 (C) B1
O51: Safety output	O51 (C) A2	O51 (C) A2	O51 (C) A2
O52: Safety output	O52 (C) A2	O52 (C) A2	O52 (C) A2
E1: Solenoid activation input for double channel mode	O51 (C) A2	O51 (C) A2	O51 (C) A2
E2: Solenoid activation input for double channel mode	O52 (C) A2	O52 (C) A2	O52 (C) A2
C3: Signalling output, actuator inserted	O51 (C) A2	O51 (C) A2	O51 (C) A2
D4: Signalling output, actuator inserted and locked	O52 (C) A2	O52 (C) A2	O52 (C) A2
I3: Actuator programming input / reset	O51 (C) A2	O51 (C) A2	O51 (C) A2
R6: ESDM input (a)	O51 (C) A2	O51 (C) A2	O51 (C) A2

Function		YES $\rightarrow$ GLE-0001	NO $\rightarrow$ GLE-0002	YES $\rightarrow$ TR-0003
A1	Supply input +24 Vdc	Ar	A	Ar
A2	Supply input 0 Vdc	Ar	A	Ar
B1	Safety input	B1	B1	B1
OR1	Safety input	Or	Or	Or
OR2	Safety input	Or	Or	Or
OR3	Safety input	Or	Or	Or
OR4	Safety input	Or	Or	Or
OR5	Safety input	Or	Or	Or
OR6	Safety input	Or	Or	Or
OR7	Safety input	Or	Or	Or
OR8	Safety input	Or	Or	Or
OR9	Safety input	Or	Or	Or
OR10	Safety input	Or	Or	Or
OR11	Safety input	Or	Or	Or
OR12	Safety input	Or	Or	Or
OR13	Safety input	Or	Or	Or
OR14	Safety input	Or	Or	Or
OR15	Safety input	Or	Or	Or
OR16	Safety input	Or	Or	Or
OR17	Safety input	Or	Or	Or
OR18	Safety input	Or	Or	Or
OR19	Safety input	Or	Or	Or
OR20	Safety input	Or	Or	Or
OR21	Safety input	Or	Or	Or
OR22	Safety input	Or	Or	Or
OR23	Safety input	Or	Or	Or
OR24	Safety input	Or	Or	Or
OR25	Safety input	Or	Or	Or
OR26	Safety input	Or	Or	Or
OR27	Safety input	Or	Or	Or
OR28	Safety input	Or	Or	Or
OR29	Safety input	Or	Or	Or
OR30	Safety input	Or	Or	Or
OR31	Safety input	Or	Or	Or
OR32	Safety input	Or	Or	Or
OR33	Safety input	Or	Or	Or
OR34	Safety input	Or	Or	Or
OR35	Safety input	Or	Or	Or
OR36	Safety input	Or	Or	Or
OR37	Safety input	Or	Or	Or
OR38	Safety input	Or	Or	Or
OR39	Safety input	Or	Or	Or
OR40	Safety input	Or	Or	Or
OR41	Safety input	Or	Or	Or
OR42	Safety input	Or	Or	Or
OR43	Safety input	Or	Or	Or
OR44	Safety input	Or	Or	Or
OR45	Safety input	Or	Or	Or
OR46	Safety input	Or	Or	Or
OR47	Safety input	Or	Or	Or
OR48	Safety input	Or	Or	Or
OR49	Safety input	Or	Or	Or
OR50	Safety input	Or	Or	Or
OR51	Safety input	Or	Or	Or
OR52	Safety input	Or	Or	Or
OR53	Safety input	Or	Or	Or
OR54	Safety input	Or	Or	Or
OR55	Safety input	Or	Or	Or
OR56	Safety input	Or	Or	Or
OR57	Safety input	Or	Or	Or
OR58	Safety input	Or	Or	Or
OR59	Safety input	Or	Or	Or
OR60	Safety input	Or	Or	Or
OR61	Safety input	Or	Or	Or
OR62	Safety input	Or	Or	Or
OR63	Safety input	Or	Or	Or
OR64	Safety input	Or	Or	Or
OR65	Safety input	Or	Or	Or
OR66	Safety input	Or	Or	Or
OR67	Safety input	Or	Or	Or
OR68	Safety input	Or	Or	Or
OR69	Safety input	Or	Or	Or
OR70	Safety input	Or	Or	Or
OR71	Safety input	Or	Or	Or
OR72	Safety input	Or	Or	Or
OR73	Safety input	Or	Or	Or
OR74	Safety input	Or	Or	Or
OR75	Safety input	Or	Or	Or
OR76	Safety input	Or	Or	Or
OR77	Safety input	Or	Or	Or
OR78	Safety input	Or	Or	Or
OR79	Safety input	Or	Or	Or
OR80	Safety input	Or	Or	Or
OR81	Safety input	Or	Or	Or
OR82	Safety input	Or	Or	Or
OR83	Safety input	Or	Or	Or
OR84	Safety input	Or	Or	Or
OR85	Safety input	Or	Or	Or
OR86	Safety input	Or	Or	Or

[illegible][illegible]

X = see page 15. Y = 47.5 mm (versions with 3 buttons); Y = 31.7 mm (versions with 4 buttons)

Pin description		NS-6000-A110		NS-6000-A111		NS-6000-A112	
A1	Supply input +24 Vdc	A1	A1	A1	A1	A1	A1
A2	Supply input 0 Vdc	A2	A2	A2	A2	A2	A2
B1	Safety input	B1	B1	B1	B1	B1	B1
Q1	Safety output	Q1	Q1	Q1	Q1	Q1	Q1
Q2	Safety input	Q2	Q2	Q2	Q2	Q2	Q2
Q3	Safety output	Q3	Q3	Q3	Q3	Q3	Q3
E1	Selected activation input for double channel mode	E1	E1	E1	E1	E1	E1
E2	Selected activation input for double channel mode	E2	E2	E2	E2	E2	E2
G1	Signalling output, actuator extended	G1	G1	G1	G1	G1	G1
G2	Signalling output, actuator retracted and locked	G2	G2	G2	G2	G2	G2
I1	Actuator programming input / reset	I1	I1	I1	I1	I1	I1
B2	EDM input	B2	B2	B2	B2	B2	B2
A3	Selected activation input for single channel mode	A3	A3	A3	A3	A3	A3

* Available for NS-6000-A110 (see connection)

The diagram illustrates the system architecture for three types of safety inputs: A1 (Safety input >24 Vdc), A2 (Safety input 0 Vdc), and A3 (Safety input). Each input path is processed through a series of logic gates and comparators. The A1 and A2 paths feed into the A3 path, which also includes a feedback loop. The final output is a digital signal, likely a safety status indicator.

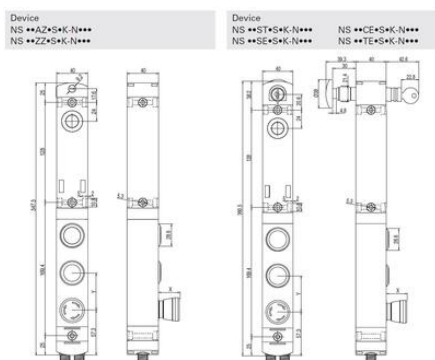
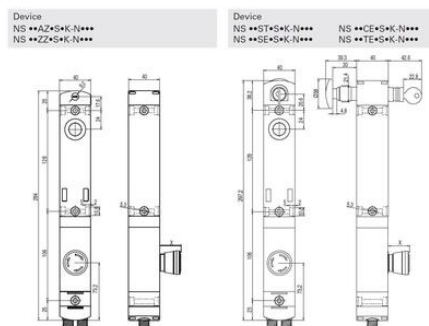
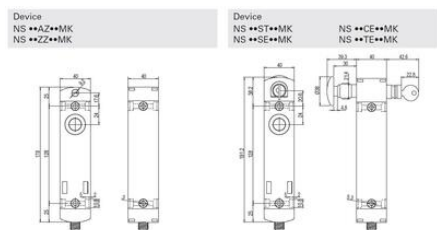
Connection		NO (N1) - NO2 (N10)	NO (N1) - NO2 (N10)	NO (N1) - NO2 (N10)
A1	Supply input +24 Vdc	A1	A1	A1
A2	Supply input 0 Vdc	A2	A2	A2
N11	Safety input	N11	N11	N11
O01	Safety output	O01	O01	O01
S1	Safety input	S1	S1	S1
O02	Safety output	O02	O02	O02
I11	Second activation input for double channel mode**	I11	I11	I11
S2	Second activation input for double channel mode**	S2	S2	S2
O1	Signaling output, actuator masked	O1	O1	O1
O4	Signaling output, actuator enabled and locked	O4	O4	O4
I4	Actuator programming input / reset	I4	I4	I4
E1	ECOP input**	E1	E1	E1
S3	Second activation input for single channel mode**	S3	S3	S3

** See Section 4.1 for 4-wire mode operation only.

** For versions with double KTY connection, 12 pins

** For versions with NO2 connection, 10 pins

Function		NI-950C-A004	NI-950C-A005	NI-950C-A006
A1	Supply input +24 Vdc	A1	A1	A1
A2	Supply input 0 Vdc	A2	A2	A2
I01	Safety input	I01	I01	I01
O01	Safety output	O01	O01	O01
I02	Safety input	I02	I02	I02
O02	Safety output	O02	O02	O02
I03	Safety input	I03	I03	I03
O03	Safety output	O03	O03	O03
I04	Safety input	I04	I04	I04
O04	Safety output	O04	O04	O04
I05	Safety input	I05	I05	I05
O05	Safety output	O05	O05	O05
I06	Safety input	I06	I06	I06
O06	Safety output	O06	O06	O06
I07	Safety input	I07	I07	I07
O07	Safety output	O07	O07	O07
I08	Safety input	I08	I08	I08
O08	Safety output	O08	O08	O08
I09	Safety input	I09	I09	I09
O09	Safety output	O09	O09	O09
I10	Safety input	I10	I10	I10
O10	Safety output	O10	O10	O10
I11	Safety input	I11	I11	I11
O11	Safety output	O11	O11	O11
I12	Safety input	I12	I12	I12
O12	Safety output	O12	O12	O12
I13	Safety input	I13	I13	I13
O13	Safety output	O13	O13	O13
I14	Safety input	I14	I14	I14
O14	Safety output	O14	O14	O14
I15	Safety input	I15	I15	I15
O15	Safety output	O15	O15	O15
I16	Safety input	I16	I16	I16
O16	Safety output	O16	O16	O16
I17	Safety input	I17	I17	I17
O17	Safety output	O17	O17	O17
I18	Safety input	I18	I18	I18
O18	Safety output	O18	O18	O18
I19	Safety input	I19	I19	I19
O19	Safety output	O19	O19	O19
I20	Safety input	I20	I20	I20
O20	Safety output	O20	O20	O20
I21	Safety input	I21	I21	I21
O21	Safety output	O21	O21	O21
I22	Safety input	I22	I22	I22
O22	Safety output	O22	O22	O22
I23	Safety input	I23	I23	I23
O23	Safety output	O23	O23	O23
I24	Safety input	I24	I24	I24
O24	Safety output	O24	O24	O24
I25	Safety input	I25	I25	I25
O25	Safety output	O25	O25	O25
I26	Safety input	I26	I26	I26
O26	Safety output	O26	O26	O26
I27	Safety input	I27	I27	I27
O27	Safety output	O27	O27	O27
I28	Safety input	I28	I28	I28
O28	Safety output	O28	O28	O28
I29	Safety input	I29	I29	I29
O29	Safety output	O29	O29	O29
I30	Safety input	I30	I30	I30
O30	Safety output	O30	O30	O30
I31	Safety input	I31	I31	I31
O31	Safety output	O31	O31	O31
I32	Safety input	I32	I32	I32
O32	Safety output	O32	O32	O32
I33	Safety input	I33	I33	I33
O33	Safety output	O33	O33	O33
I34	Safety input	I34	I34	I34
O34	Safety output	O34	O34	O34
I35	Safety input	I35	I35	I35
O35	Safety output	O35	O35	O35
I36	Safety input	I36	I36	I36
O36	Safety output	O36	O36	O36
I37	Safety input	I37	I37	I37
O37	Safety output	O37	O37	O37
I38	Safety input	I38	I38	I38
O38	Safety output	O38	O38	O38
I39	Safety input	I39	I39	I39
O39	Safety output	O39	O39	O39
I40	Safety input	I40	I40	I40
O40	Safety output	O40	O40	O40
I41	Safety input	I41	I41	I41
O41	Safety output	O41	O41	O41
I42	Safety input	I42	I42	I42
O42	Safety output			



X = see page 15. Y = 47.5 mm (versions with 3 buttons); Y = 31.7 mm (versions with 4 buttons)

