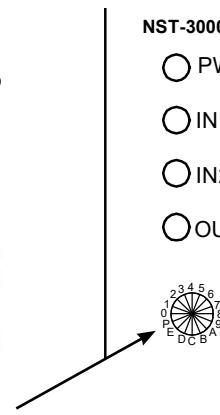


Programming

Position hex switch	Output configuration (OSSD)	Delay s	NST-3000DI
0	3 NO / 1 NC – direct	0	PWR
1	4 NO – direct	0	IN1
2	2 NO direct / 2 NO delayed	0.1	IN2
3	2 NO direct / 2 NO delayed	0.5	OUT
4	2 NO direct / 2 NO delayed	1	
5	2 NO direct / 2 NO delayed	1.5	
6	2 NO direct / 2 NO delayed	2	
7	2 NO direct / 2 NO delayed	3	
8	2 NO direct / 2 NO delayed	4	
9	2 NO direct / 2 NO delayed	5	
A	2 NO direct / 2 NO delayed	10	
B	2 NO direct / 2 NO delayed	15	
C	2 NO direct / 2 NO delayed	20	
D	2 NO direct / 2 NO delayed	25	
E	2 NO direct / 2 NO delayed	30	
P	Prog		

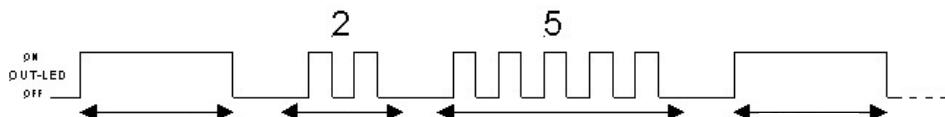


1. Device needs to be switched off
2. Put hex switch in position "P"
3. Switch device on and wait app. 6s until the OUT-LED blink alternately.
4. Rotate the hex switch clockwise until it's desired position.
5. Wait app. 2 seconds
6. The PWR-LED and the OUT-LED blink alternately fast which means that the new configuration is overtaken.
7. Switch device off and on again, the device will now work with the new configuration.

Display of the error code

At the same time, the OUT-LED flashes permanently an error code. The error code output is repeated infinitely.

The draft shows an example with code 25.



The FAILSAFE state can only be cancelled by switching the device off and on.

Faults resulting from faulty wiring may not be detected, but it is ensured that the release circuits do not become activated.

Error code	Description
17	Error recognizing a valid configuration, please check the wiring
18	
21	OSSD error, possibly cross circuited or circuited against Gnd or Vcc
22	
23	S11 error (cross circuit, circuit against Gnd or Vcc)
24	S21 error (cross circuit, circuit against Gnd or Vcc)
25	Failure on an input wired to S11 (cross circuit, circuit against Gnd or Vcc) check wiring
26	Failure on an input wired to S21 (cross circuit, circuit against Gnd or Vcc) check wiring
27	Mat failure, at least one circuit is open
28	Error S36 has changed
29	Failure in start configuration, most probably changed
32	Failure in configuration recognition (different results)
33	
34	Failure Hex switch does not match internal memory (hex switch changed?)
35	Failure in communication with ESPD type 2
36	Failure in S21-S22 bridge
75	Failure not programming position
76	
78	Failure in hex switch
79	

EC Declaration of Conformity

NST-3000DI

The manufacturer

Duelco A/S
Systemvej 8
DK-9200 Aalborg SV

hereby declares in sole responsibility that the following product

Product description Multifunctional Safety Relay

Type designation **NST-3000DI**

is conform to all relevant regulations of the directive **Machinery (2006/42/EC)**.

The safety component conforms additionally the directives **Low Voltage Directive (2014/35/EU)** and **Electromagnetic Compatibility (2014/30/EU)** as well as **RoHS Directive (2011/65/EU)**.

The following standards were applied:

EN 61508:2010	<i>Functional Safety of safety-related electrical/electronic/programmable electronic control systems</i>
EN 62061:2005 + Cor.:2010 + A1:2013 + A2:2015	<i>Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems</i>
EN ISO 13849-1:2015	<i>Safety of machinery - Safety-related parts of control systems – Part 1: General principles for design</i>
EN 50581:2012	<i>Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances</i>

The safety component was validated by the following testing institutes:

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.de Notified Body: 0044	No. of EC Type Examination Certificate 44 205 15176923
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In response to a reasoned request by national authorities, relevant information of the safety component will be sent electronically or postally. Person that is authorized to compile the relevant technical documentation is:

Dipl. El.-Ing. Teidt Due – Systemvej 8, DK-9200 Aalborg SV

Date	Signature
Aalborg, 30.07.2020	Teidt Due Managing Director 