

	NST-3.2 (L)
APPLICATIONS	
Emergency stop	
Door monitoring	
\checkmark	
Safety mat/edge	
Light curtain	
Non-contact switches	
Two hand control	
SAFETY CATEGORY	
PL, EN ISO 13849-1	
Category, EN ISO 13849-1	
DIMENSIONS	
width (mm)	
RESET TYPES AND TEST	
Automatic/manual	
Monitored	
Manual monitored	
NUMBER OF OUTPUTS	
Safety outputs NO	
Delayed safety outputs NO	
Signal output NC	
Transistor (signal)	
Current limited power outlet	
LOAD	
Max. load, output	6A A
ORDER INFORMATION	
12 V DC	42
24 V DC	
24 V AC	
24 V AC/DC	42 42041243
48 V AC	
120 V AC	
230 V AC	

switches for

Two hand

		EMERGENCY STOP RELAYS			EXTENSION MODULES	TWO-HANI		HAND SENSOR ACTUATOR	TWO HAND PANEL
	NST-2002.2	NST-2004	NST-2007	NST-2009	EU-2001	HR-2001	HR-2007		PCB3/SD
•	•	•	•	•					Option:
	•	•	•	•					
	•	•		•					
						•	•		Duelco stand PRB05 for PCB3 panels.
d			0	0			<u>^</u>	1	
3	e 4	e 4	e 4	e 4	e 4	e IIIC, EN 574	e IIIC, EN 574		
22,5	22,5	22,5	22,5	35	22,5	22,5	22,5	Built-in = Ø 50mm; Touch = Ø 59,5mm	480 x 161 x 172
•	•	•	•	•					
				•					
		•	• (MMR version)						
3	3	3	3	2	4 (EU-2001)	2	2		
				2	4 (EU-2001S)				
1		1 (option)	1	1		1 (option)	1		
		1 (option)			1	1 (option)	1		
	< 80 mA	< 70/420 mA							
4 AC / 6A DC	6A AC / 6A DC	6A AC / 6A DC	6A AC / 6A DC	5A AC / 5A DC	6A AC / 6A DC	6A AC / 6A DC	6A AC / 6A DC	TST-3: 0,1ADC	
42042228									
	42042222	42010204 (F) 42011204 (D)		42080020	42022001	42401001		42000003	42800005 (inclusive push buttons and emergency sto button)
		42011204 (U)				42401301			42800006 (inclusive Ø 50 mm holes for TST-2/3 actuat
42042248 243 (Low housing)			42080001 42080002 (MMR version)				42080030		and inclusive emergency stop button)
(42800007 (inclusive push buttons and emergency stop bu + 4 holes)
									42800010 (stand for PCB3 panel) 42800011 (stand with base plate for foot control units
		42012301 (F)	42080003 42080004 (MMR version)		42022003	42401623	42080031		(stand with base plate for foot control units)

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The standard in safety technology

IT PAYS TO USE SAFETY TECHNOLOGY The protection of man and machine through the targeted control of hazardous movements, cost savings thanks to fewer accidents reduced downtimes and fewer production losses - these are some of the real benefits that you can enjoy when you use Duelco safety components.

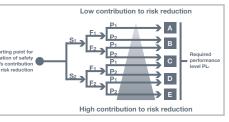
SAFETY RELAYS FROM DUELCO

Our safety relays comply with international standards and regulations. Our safety relays mostly have been approved by BG, TÜV or another notified body and offers users considerable benefits. Long service life and high availability ensure it is cost-effective to use.

EN ISO 13849-1

As the successor standard to EN 954-1. EN ISO 13849-1 is based on the familiar categories. Equally, it examines complete safety functions, including all the components involved in their design. EN ISO 13849-1 goes beyond the qualitative approach of EN 954-1 to include a quantitative assessment of the safety functions. A performance level (PL) is used for this, building upon the categories.





Risk analysis in accordance with EN 13849-1

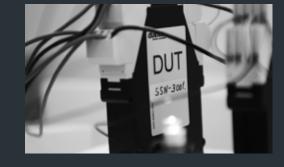
SAFETY ASSESSMENT IN ACCORDANCE WITH EN/IEC 62061

According to the standard EN/IEC 62061, safety requirements in control technology can be divided into safety integrity levels. SIL 3 represents the highest risk reduction and protection level, where the safety function must always be maintained. The risk is estimated through consideration of the severity of injury (Se), the frequency and duration of exposure to the hazard (Fr), probability of occurrence of a hazardous event (Pr) and the possibility of avoiding or limiting the harm (Av).

quences		Class CL = Fr + Pr + Av				
	SE	3-4	5-7	8-10	11-13	14-15
losing an eye or arm	4	SIL 2	SIL 2	SIL 2	SIL 3	SIL 3
nent, losing fingers	3		OM	SIL 1	SIL 2	SIL 3
ible, medical attention	2			OM	SIL 1	SIL 2
ible, first aid	1				OM	SIL 1

Risk assessment and definition of the required safety integrity level (SIL)

Made in **Denmark**



has been to provide good service with a high standard of technical know-how, high quality least because the products must contribute products and top-line supply capability. In other to high levels of personal safety. The testing words we want to become an excellent partner department creates the framework for developinnovative and overall economic solutions.

Through more than 25 years Duelco A/S has be put to the test in the testing department been working with machine safety. To a great as well. During the production of the relays by only Danish producer of safety relays, which are comprehensive function test. exported worldwide.

Duelco's strength consists of the comprehensive 'know-how' in design philosophy and requirements of standards, which are translated into market conforming products in our development - and design department. Fertile teamwork with customers and distributors has shown us the way to products specifically suited to customer needs. Duelco has specialized itself in easy understandable safety relays

for diverse application. Special low voltage versions are unique and can not be found elsewhere on the market.

Duelco's department in Sønderborg provides the foundation for design and development of new safety relays and support for both export customers and distributors as well as our Danish customers.

Ever since Duelco A/S started in 1974, our aim The testing department has an essential function in the daily development of new relays, not for our customers when it comes to competent, ing reliable relays of the highest quality by virtue of demanding test procedures and long-term tests. New ideas for future relay designs must extent this is due to the fact that we still are the sub-suppliers, every single relay goes through a

All our subcontractors are carefully selected according to the highest quality criteria's in accordance with ISO 9001.



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