



**Electric Automation**  
Automation specialists

Reference: NSO02DB24SA

Selected parameters FUNCTION Safety gate SAFETY  
CATEGORY 4 SAFETY OUTPUT 2 NO Others SIZE 22 mm  
CONNECTIONS Screw-fixed POWER SUPPLY 24 VAC/DC  
MOUNTING DIN-rail OTHERS 2 NO inputs

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## Safety Modules

Safety Gate and Safety Magnetic Sensor

Types NSO02D, NSO13D

Screw, fixed

Screw, detachable

- Safety Category 4, Performance Level e, according to EN 13849-1
- Safety Category 4 according to EN 954-1
- Category 0 Emergency Stop (EN 60204-1)
- Input type: 2 NO
- 2 x 6 A NO safety outputs (NSO02D)
- 3 x 6 A NO safety outputs and 1 x 6 A NC auxiliary output (NSO13D)
- Automatic / manual or monitored manual reset
- Single / double channel operations
- LED indication for outputs status and power supply ON
- Connection by fixed or detachable terminals
- For mounting on DIN-rail in accordance with DIN/EN 50

022

- 22.5 mm Euronorm housing

Product Description

Ordering Key NSO0 2 D B24 S A

Safety gate and safety magnetic sensor modules according to EN 60204-1, EN 292-1/-2, EN 418 and EN 1088.

This family of safety module in Safety Category 4,

Type Selection

Performance Level e, includes fixed screw and detachable screw as well as automatic/manual or monitored manual restart versions.

Housing Function Auxiliary outputs Safety outputs Safety category Power supply

Terminals Start/Reset type

Auxiliary outputs

## Safety

outputs Terminals Start/Reset type Supply: 24 VAC/DC

2 NOScrew, fixedAutomatic / Manual N SO 0 2 D B24 S A

2 NOScrew, fixedMonitored manualN SO 0 2 D B24 S C

2 NOScrew, detachableAutomatic / Manual N SO 0 2 D B24 D A

2 NOScrew, detachableMonitored manualN SO 0 2 D B24 D C

1 NC3 NOScrew, fixedAutomatic / Manual N SO 1 3 D B24 S A

1 NC3 NOScrew, fixedMonitored manualN SO 1 3 D B24 S C

1 NC3 NOScrew, detachableAutomatic / Manual N SO 1 3 D B24 D A

1 NC3 NOScrew, detachableMonitored manualN SO 1 3 D B24 D C

## TimeSpecification

### Output Specification

Delay ON energisation < 150 ms Delay ON de-energisation < 30 ms Recovery time ≥ 30 ms Channel simultaneity

during outputs closingInfinite

Input operating to START

operating delay

NSO...C> 500 ms

### InputSpecifications

Function2 NO, voltage free

Input current

Terminals S11-S12 max 10 mA Terminals S21-S22 max 10 mA

External contact resistance

Terminals S11-S12 max. 60Ω

Terminals S21-S22 max. 60Ω

Safety outputsCategory 4, Performance

Level e (EN 13849-1) NSO02D2 NO (13-14, 23-24) NSO13D3 NO (13-14, 23-24, 33-34)

Auxiliary output

NSO13D1 NC (41-42)

Rated insulation voltage 250 VAC (rms)

Contact ratings (AgSnO<sub>2</sub>)2 μm Au

Safety outputs

Resistive loads AC1 6 A @ 230 VAC DC12 6 A @ 24 VDC

Small inductive loadsAC153 A @ 230 VAC DC13 2.5 A @ 24 VDC

Auxiliary output 6A, 24 VAC/DC

External contact fuse

protection5 A fast, 4 A slow

Mechanical life> 107 operations Electrical life> 105 operations Dielectric strength

Dielectric voltage4 kVAC (rms)

1Specifications are subject to change without notice. Pictures are just an example.

For special features and/or customization, please ask to our sales network.27/09/12