

ABB BSR23 2TLA010041R0600 24VDC 4NO+1NC Safety Expansion Relay Datasheet



Brand: ABB

SKU: 936561307088

Category: Safety & PPE

Price: \$952.29

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Product Page:

<https://www.equipspares.com/product/abb-bsr23-2tla010041r0600-24vdc-4no1nc-safety-expansion-relay>

Product Description

The ABB Sentry BSR23 is a high-performance safety expansion relay designed to increase the number of safe outputs for safety relays or safety PLCs. Operating on a 24VDC supply voltage, this unit features a robust 4NO (Normally Open) and 1NC (Normally Closed) contact configuration with a high switching capacity of up to 8A. It achieves a Performance Level (PL) of up to PLe and SIL3, ensuring maximum functional safety in industrial environments. The device is housed in a compact 22.5mm wide enclosure with an IP20 rating and utilizes screw terminals for secure electrical connections.

BSR23 Specifications

Model Number: BSR23

Order Code: 2TLA010041R0600

Brand: ABB

Product Series: Sentry

Product Category: Safety Expansion Relay

Supply Voltage: 24VDC

Power Consumption: 3W

Contact Configuration: 4NO + 1NC

Contact Rating: 8A

Coil Voltage: 265VAC / 350VDC

Switching Frequency: 0.5Hz
Response Time: No time delay
Mounting Type: DIN Rail
Terminal Type: Screw Terminal
Display: LED Status Indicator
Degree of Protection: IP20
Operating Temperature: -10 to 55°C
Safety Level: Up to PLe / SIL3
Width: 22.5mm
Height: 120mm
Depth: 120mm
Net Weight: 0.195kg
HS Code: 85364900
Certifications: CE, cULus, TÜV

BSR23 Applications

Expansion of safe output capacity for safety PLCs and primary safety relays in light curtains, emergency stop circuits, and interlocking gate switches. Integration into high-density control cabinets requiring PLe/SIL3 functional safety for industrial machinery and automated production lines.

Supplemental Images



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**Sentry
Safety Relay**

**BSR23
2TLA010041R0600**

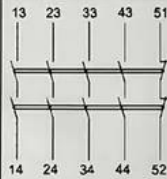
IP20

24 Vdc, 5W (19,2-27.6 Vdc)
External Fuse: Any (JDYX/7)
Fast acting, Ratings 250V,
4A, IR200A

NO contact
AC1, AC15: 250V, 5A
DC1, DC13: 24V, 6A
Fuse: 6A

NC contact
AC1, AC15: 250V, 0.5A
DC1, DC13: 24V, 2A
Fuse: 4A

"s" or/and crimped "f" type wires
Wire strip length:
min 6 mm, max 7 mm
Wire size:
12-24 AWG, 0.21-3.31 mm²
Terminal torque: 0.8 Nm



Receive: R1, R2
Test: X1, X2
Relay outputs, 4NO + 1NC:
13/14, 23/24, 33/34,
43/44, 51/52



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[new.abb.com/low-voltage/
products/safety-products](http://new.abb.com/low-voltage/products/safety-products)

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