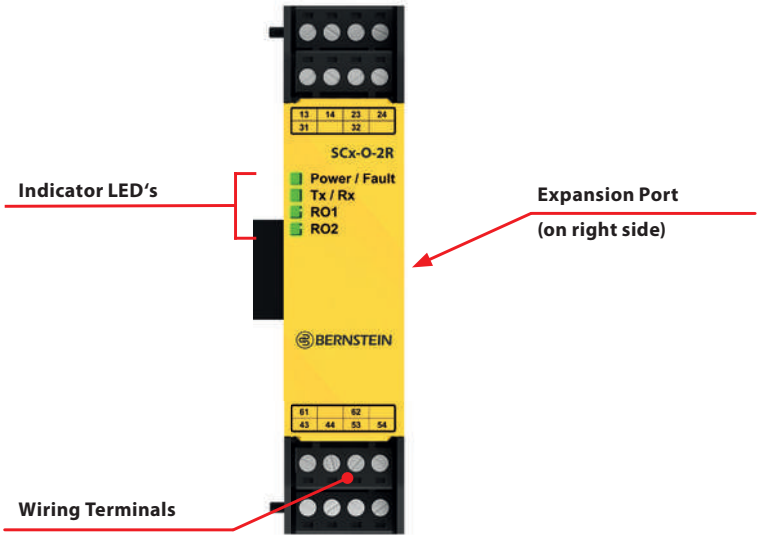
Safety Controller
Series SCx

Description **SCx-O-2R**	Article number **6075773219**

2 Dual-channel safety relay module





Electrical Data			
Sourcing Voltage			
	Voltage	24 V DC ± 20% (incl. ripple)	
	Current	100 mA no load	
BUS Curent		0,15 A (outputs switched on)	
Switching Capacity			
	NO contact	6 A 250 V AC/DC continuous	
	NC contact	2,5 A 150 V AC/DC continuous	
Utilization category (IEC 60947-5-1)			
	NO contact	AC 15: 3 A 250 V DC13: 1A 24 V/ 4 A 24 V 0,1 Hz	
	NC contact	AC 15: 1 A 150 V DC13: 1 A 24 V/ 4 A 24 V 0,1 Hz	
Contact values for maintaining the 5 µm AgNi gold coating		Minimum	Maximum
	Voltage	100 mV AC/DC	60 V AC/DC
	Power rating	1 mW (1 mVA)	7 W (7 VA)
	Current	1 mA	300 mA

Mechanical Data	
Operating Conditions	
Temperature	0 °C to +55 °C
Storage Temperature	–30 °C to +65 °C
Humidity	90 % at +50 °C maximum relative humidity (non-condensing)
Operating Altitude	2000 m maximum (6562 ft maximum)
Protection class	IP20 (NEMA 1), for use in enclosures to IP54 (NEMA 3) or higher
Mechanical Stress	
Shock	15 g for 11 ms, half sine, 18 shocks total (per IEC 61131-2)
Vibration	3,5 mm occasional / 1,75 mm continuous at 5 Hz to 9 Hz, 1,0 g occasional and 0,5 g continuous at 9 Hz to 150 Hz: all at 10 sweep cycles per axis (per IEC 61131-2)

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
0,50/20	5,0
0,32/22	3,0
0,20/24	2,0
0,13/26	1,0
0,08/28	0,8
0,05/30	0,5

Overcurrent protection is required to be provided by end product application per the supplied table.
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.
Power supply wires < 0.20mm^2 (24 AWG) must not be connected.
For additional product support, go to www.bernstein.eu.

Standards	
	EN ISO 12100
	ISO 13857
	ISO13850
	EN 574
	IEC6206
	EN ISO 13849-1
	ISO 13855
	ISO 14119
	EN 60204-1
	IEC 61496
	IEC 60529
	IEC 60947-1
	IEC 60947-5-1
	IEC 60947-5-5
	IEC 61508
	IEC 62046

Safety characteristics	
PFH (1/H)	7,6 x 10^{-10}
Proof Test Interval	20 years
B10d Values	300.000 at 230 V AC / 3 A 750.000 at 230 V AC / 1 A 1.500.000 at 24 V DC / ≤ 2 A

EU-Conformity	
	according to directive 2006/42/EG (Safety-of-Machinery-Directive)
	according to directive 2014/30/EU (EMV-Richtlinie)
	2012/19/EU (EU-WEEE II); WEEE-Reg. No. DE 50560927

Approvals	
	$_{c}UL_{US}$