



### Main

|                                |   |
|--------------------------------|---|
| Range of product               | XR and XF   |
| Product or component type      | Standard duty screw limit switch  |
| Device short name              | XRBA  |
| Product specific application   | Position control of moving parts of hoisting or materials handling equipment<br>Liquid level control in pumping systems                 |
| Material                       | Aluminium alloy: body housing<br>Aluminium alloy: cover<br>Stainless steel: input drive shaft   |
| Type of operator               | Bare drive shaft  |
| Operating position             | Right-hand side   |
| Maximum revolution speed       | 1000 rpm of input drive shaft   |
| Number of poles                | 1   |
| Contact operation              | Snap action   |
| [Ie] rated operational current | A300, AC-15, Ue = 240 V, Ie = 3 A conforming to EN/IEC 60947-5-1<br>Q300, DC-13, Ue = 250 V, Ie = 0.27 A conforming to EN/IEC 60947-5-1 |
| Product compatibility          | XRZ922  |

### Complementary

|  |  |
|--|--|
| Reduction ratio                              | 60:1   |
| Operating torque                             | 5 N.m at 20 °C   |
| Mechanical durability                        | 15000000 cycles  |
| Contacts type and composition                | 4 C/O  |
| [Ithe] conventional enclosed thermal current | 10 A   |
| [Ui] rated insulation voltage                | 250 V conforming to EN/IEC 60947-1   |
| [Uimp] rated impulse withstand voltage       | EN/IEC 60947-1 6 kV  |
| Maximum resistance across terminals          | 25 MOhm  |
| Short-circuit protection                     | 10 A cartridge fuse type gG  |
| Connections - terminals                      | Captive screw clamp terminals, 2 x 1.5 mm <sup>2</sup> with cable end  |
| Electrical durability                        | 500000 cycles AC-15 50/60 Hz inductive at 12 V, 65 VA, operating rate <3600 cyc/h, load factor 0.5<br>EN/IEC 60947-5-1<br>500000 cycles AC-15 50/60 Hz inductive at 127 V, 450 VA, operating rate <3600 cyc/h, load factor 0.5<br>EN/IEC 60947-5-1 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

500000 cycles AC-15 50/60 Hz inductive at 220 V, 530 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles AC-15 50/60 Hz inductive at 24 V, 108 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles AC-15 50/60 Hz inductive at 48 V, 216 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles AC-15 50/60 Hz resistive at 12 V, 18 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles AC-15 50/60 Hz resistive at 127 V, 165 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles AC-15 50/60 Hz resistive at 220 V, 220 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles AC-15 50/60 Hz resistive at 24 V, 35 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles AC-15 50/60 Hz resistive at 48 V, 700 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 inductive at 110 V, 130 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 inductive at 12 V, 55 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 inductive at 220 V, 135 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 inductive at 24 V, 84 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 inductive at 48 V, 110 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 resistive at 110 V, 65 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 resistive at 12 V, 27 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 resistive at 220 V, 67 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 resistive at 24 V, 39 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1  
 500000 cycles DC-13 resistive at 48 V, 50 W, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1

|                              |   |
|------------------------------|---|
| Adaptation for potentiometer | With, ratio 2 (1.933)   |
| Cable entry                  | 1 entry tapped for Pg 16 cable gland, clamping capacity: 10...14 mm<br>1 entry tapped for Pg 9 cable gland, clamping capacity: 5...8 mm |
| Product weight               | 1.5 kg  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947-5-1   |
| Protective treatment                  | TC   |
| Ambient air temperature for operation | -25...70 °C  |
| Ambient air temperature for storage   | -40...70 °C  |
| Shock resistance                      | 80 gn for 11 ms  |
| Vibration resistance                  | > 5 gn (f= 10...60 Hz)   |
| IP degree of protection               | IP55 conforming to EN/IEC 60529<br>IP557 conforming to NF C 20-010 |

## Offer Sustainability

|                   |  |
|-------------------|--|
| EU RoHS Directive | Not applicable, out of EU RoHS legal scope |
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## Contractual warranty

|          |           |
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| Warranty | 18 months |
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