

# XRBA42100

Standard duty screw limit switch, XR and XF,  
bare drive shaft, 4 C/O, 17:1, right hand



## Main

Range of product	XR and XF
Product or component type	Standard duty screw limit switch
Device short name	XRBA
Product specific application	Liquid level control in pumping systems Position control of moving parts of hoisting or materials handling equipment
Material	Aluminium alloy: body housing Aluminium alloy: cover 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 Q300, DC-13, Ue = 250 V, Ie = 0.27 A conforming to EN/IEC 60947-5-1
Product compatibility	XRBZ900

## Complementary

Reduction ratio	17:1
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	6 kV conforming to EN/IEC 60947-1
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

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Electrical durability	500000 Cycles AC-15 50/60 Hz inductive at 12 V, 65 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 500000 Cycles AC-15 50/60 Hz inductive at 127 V, 450 VA, operating rate <3600 cyc/h, load factor 0.5 EN/IEC 60947-5-1 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 1
Cable entry	1 entry tapped for Pg 16 cable gland, clamping capacity: 10...14 mm 1 entry tapped for Pg 9 cable gland, clamping capacity: 5...8 mm
Net 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 IP557 conforming to NF C 20-010

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13 cm
Package 1 Width	15 cm
Package 1 Length	23.5 cm
Package 1 Weight	1.7 kg

## Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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