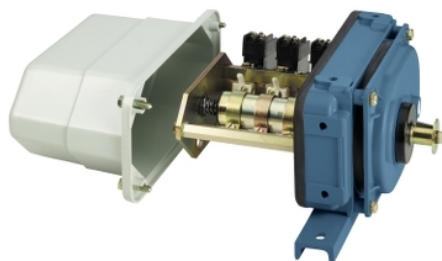


# XR2AA03K20

Single stage heavy duty screw limit switch, XR and XF, XR2, 3C/O, aluminium alloy housing



## Main

|                              |                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Range of product             | XR and XF                                                                                                               |
| Product or component type    | Single-stage heavy duty screw limit switch                                                                              |
| Device short name            | XR2                                                                                                                     |
| 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>Plastic: cover                                                                         |
| Type of operator             | Drive shaft, end fittings with sprocket key and washer                                                                  |
| Maximum revolution speed     | 250 rpm of input drive shaft                                                                                            |
| Theoretical number of turns  | 20 of input drive shaft                                                                                                 |
| Number of poles              | 1                                                                                                                       |

## Complementary

|                                              |                                                                                                                                              |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Mechanical durability                        | 10000000 cycles                                                                                                                              |
| Maximum number of turns                      | 6 of threaded shaft                                                                                                                          |
| Threaded shaft screw pitch                   | 4 mm                                                                                                                                         |
| Operating finger radius                      | 40 mm                                                                                                                                        |
| Length of developed helical travel           | 4 mm                                                                                                                                         |
| Differential snap over angle                 | 30 ° contact actuators measured at finger                                                                                                    |
| Repeat accuracy                              | 0.02 % on the tripping point                                                                                                                 |
| Number of teeth                              | 26 (pinion A)<br>26 (pinion C)<br>49 (pinion B)<br>49 (pinion D)                                                                             |
| Actual number of turns                       | 21.3 (input drive shaft)                                                                                                                     |
| Contacts type and composition                | 3 C/O                                                                                                                                        |
| 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      |
| [Ithe] conventional enclosed thermal current | 10 A                                                                                                                                         |
| [Ui] rated insulation voltage                | 500 V conforming to EN/IEC 60947-1<br>600 V conforming to CSA C22.2 No 14                                                                    |
| [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 gG                                                                                                                       |
| Connections - terminals                      | Screw clamp terminals, 2 x 1.5 mm <sup>2</sup> with or without cable end<br>Screw clamp terminals, 2 x 2.5 mm <sup>2</sup> without cable end |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.



[illegible]

|             |                                                                      |
|-------------|----------------------------------------------------------------------|
| Cable entry | 2 entries tapped for Pg 13 cable gland, clamping capacity: 9...12 mm |
| Net weight  | 6 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                      | 50 gn for 11 ms                 |
| Vibration resistance                  | > 5 gn (f= 10...55 Hz)          |
| IP degree of protection               | IP54 conforming to EN/IEC 60529 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 25.0 cm  |
| Package 1 Width              | 33.0 cm  |
| Package 1 Length             | 42.0 cm  |
| Package 1 Weight             | 5.993 kg |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 1        |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 6.366 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 |
|----------|-----------|