## **XCKS531H7**

Limit switch, Limit switches XC Standard, XCKS, thermoplastic roller lever, 1NC+1 NO, slow break, 1/2NPT





#### Main

Range of Product	Telemecanique Limit switches XC Standard
Series name	Standard format
Product or Component Type	Limit switch
Device short name	XCKS
Sensor design	Form A CENELEC EN 50041
Body type	Fixed
Head type	Rotary head
Material	Plastic
Body Material	Plastic
Head material	Plastic
Fixing Mode	By the body
Movement of operating head	Rotary
Type of operator	Spring return roller lever thermoplastic
Type of approach	Lateral approach, 1 or 2 programmable direction
Cable entry	1 entry tapped for 1/2" NPT cable gland 0.28 0.51 in (713 mm)
Number of poles	2
Contacts type and composition	1 NC + 1 NO
Contact operation	Slow-break, break before make

#### Complementary

By 30° cam
Screw-clamp terminals 1 x 0.52 x 2.5 mm <sup>2</sup>
Zb
1
With
1.33 lbf.in (0.15 N.m)
0.89 lbf.in (0.1 N.m)
6 m/min
4.92 ft/s (1.5 m/s)
A300, AC-15 (Ue = 240 V), Ie = 3 A EN/IEC 60947-5-1 appendix A Q300, DC-13 (Ue = 250 V), Ie = 0.27 A EN/IEC 60947-5-1 appendix A
10 A AC
300 VUL 508 500 V 3)IEC 60947-1 300 VCSA C22.2 No 14
25 MOhm IEC 60255-7 category 3
6 KV IEC 60664 6 kV IEC 60947-1
10 A cartridge fuse gG
5000000 Cycles, DC-13, inductive, 120 V, 4 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 Cycles, DC-13, inductive, 24 V, 10 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C 5000000 cycles, DC-13, inductive, 48 V, 7 W 60 cyc/mn 0.5 IEC 60947-5-1 appendix C

Mechanical durability	20000000 cycles	
Width	1.57 in (40 mm)	
Height	5.12 in (130 mm)	
Depth	2.36 in (60 mm)	
Net Weight	0.35 lb(US) (0.16 kg)	
Terminals description ISO n°1	(21-22)NC (13-14)NO	

### Environment

Shock resistance	50 gn 11 ms IEC 60068-2-27
Vibration resistance	25 gn 10500 Hz)IEC 60068-2-6
IP degree of protection	IP67 conforming to IEC 60529 IP66 conforming to IEC 60529
IK degree of protection	IK05 EN 50102
Electrical shock protection class	Class II IEC 61140 Class II NF C 20-030
Overvoltage category	Class II IEC 61140 Class II NF C 20-030
Ambient Air Temperature for Operation	-13158 °F (-2570 °C)
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Protective treatment	TC
Product Certifications	CCC CSA UL
Standards	IEC 60947-5-1 IEC 60204-1 CENELEC EN 50041 EN 60204-1 CSA C22.2 No 14 UL 508 EN 60947-5-1

## Ordering and shipping details

Category	22417 - LIMIT SWITCH, IEC, CLASSIC
Discount Schedule	Т
GTIN	3606481275585
Nbr. of units in pkg.	1
Package weight(Lbs)	0.34 lb(US) (0.152 kg)
Returnability	No
Country of origin	ID

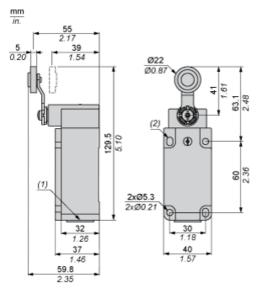
### **Packing Units**

1 doking office	
Unit Type of Package 1	PCE
Package 1 Height	1.68 in (4.2596 cm)
Package 1 width	2.26 in (5.7455 cm)
Package 1 Length	5.15 in (13.0759 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	132.56 oz (3758.0 g)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	352
Package 3 Weight	2297.28 oz (65128.0 g)
Package 3 Height	27.56 in (70 cm)
Package 3 width	23.62 in (60 cm)
Package 3 Length	31.50 in (80 cm)

### Offer Sustainability

Sustainable offer status	Green Premium product
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 www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

#### **Dimensions**

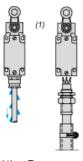


- 1 tapped entry for 1/2NPT gland 2 elongated holes Ø 5.3 x 7.3.

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## Mounting with Cable Entry

#### Position of Cable Gland

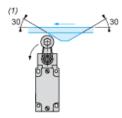


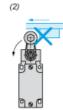


- (1) Recommended
- (2) To be avoided

### Mounting with Rotary Heads and Levers

#### Type of Cam

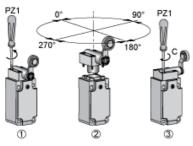




- (1) Recommended
- (2) To be avoided

#### Setting-up

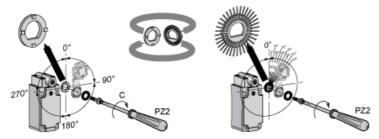
#### Head Rotation Adjustment



C: 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

#### Setting-up

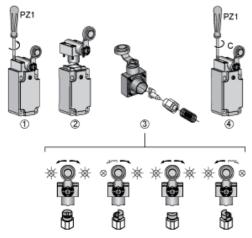
## Lever Angle Adjustment



C: 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

## Setting-up with Head ZCKD05

## **Direction of Actuation Programming**



C: 1 Nm (+/- 20%) / 8.85 lb-in (+/- 20%)

## Product data sheet Connections and Schema

# **XCKS531H7**

## Wiring Diagram

2-pole NC + NO Break Before Make, Slow Break

## Product data sheet **Technical Description**

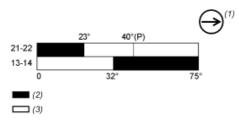
# **XCKS531H7**

#### **Characteristics of Actuation**

#### Switch Actuation by 30° Cam



## **Functionnal Diagram**



- Positive opening point
- NC contact with positive opening operation
- Closed
- (1) (2) (3) Open