XCKW131
Wireless limit switch XCKW - plastic roller lever

Main

Range of product	OsiSense XC
Series name	Standard format
Product or component type	Wireless limit switch
Device short name	XCKW
Body type	Fixed
Head type	Rotary head

Complementary

Body material	Plastic
Head material	Plastic
Lever material	Metal
Fixing mode	By 4 screws
Type of operator	Thermoplastic spring return roller lever
Switch actuation	By 30° cam
Type of approach	1 or 2 programmable direction lateral approach
Communication network type	ZigBee green power 2.4 GHz conforming to IEEE 802.15.4
Electrical composition code	PW1
Emission power	3 mW
Response time	<= 2 ms
Maximum sensing distance	100 m in free field 300 m with external antenna 25 m with receiver in metal enclosure 40 m with receiver in metal enclosure and active antenna
Contacts operation	Snap action
Number of steps	1
Minimum torque for tripping	0.5 N.m
Maximum actuation speed	1 m/s
Operating rate	<= 60 cyc/mn
Mechanical durability	400000 cycles
Switching operation per hour	<= 3600
Width	40 mm
Height	137 mm
Depth	61 mm
Product weight	0.24 kg

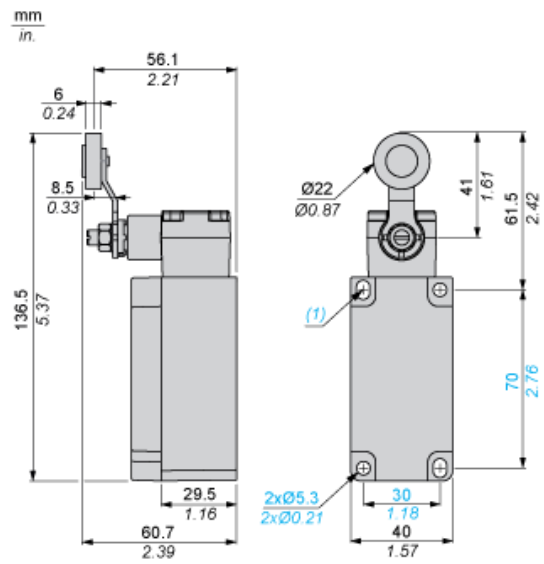## Environment

Electromagnetic compatibility	Radiated emission Immunity for industrial environments Susceptibility to electromagnetic fields : 3 V/m, 80...2700 MHz, distance = 20 m Susceptibility to electromagnetic fields : 10 V/m, 80...2000 MHz Electrostatic discharge immunity test : 6 kV, on contact (on metal parts) Electrostatic discharge immunity test : 8 kV, in free air (in insulating parts)
Shock resistance	50 gn (duration = 11 ms) conforming to IEC 60068-2-27
Vibration resistance	+/- 10 mm (vibration frequency: 2...11 Hz) conforming to IEC 60068-2-6 25 gn (vibration frequency: 10...500 Hz) conforming to IEC 60068-2-6
IP degree of protection	IP67 conforming to IEC 60529 IP66 conforming to IEC 60529
IK degree of protection	IK05 conforming to EN 50102
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-40...70 °C
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive
Standards	EN/IEC 60947-3 EN/IEC 60947-5-3
Radio agreement	IC RSS FCC RCM

Offer Sustainability

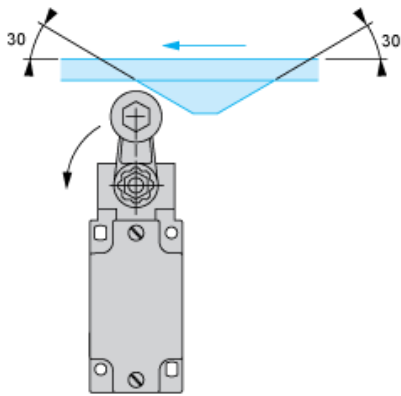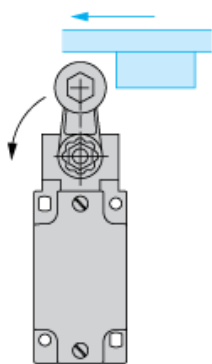|	
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1545 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

Telemecanique
Sensors

Dimensions

(1)   2 elongated holes 5.3 x 7.3 mm / 0.21 x 0.29 in.

Mounting with Rotary Head and Roller Lever

Recommended Mounting
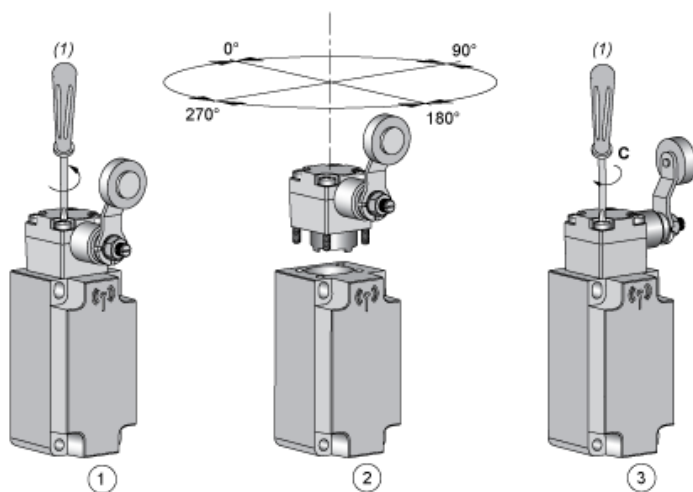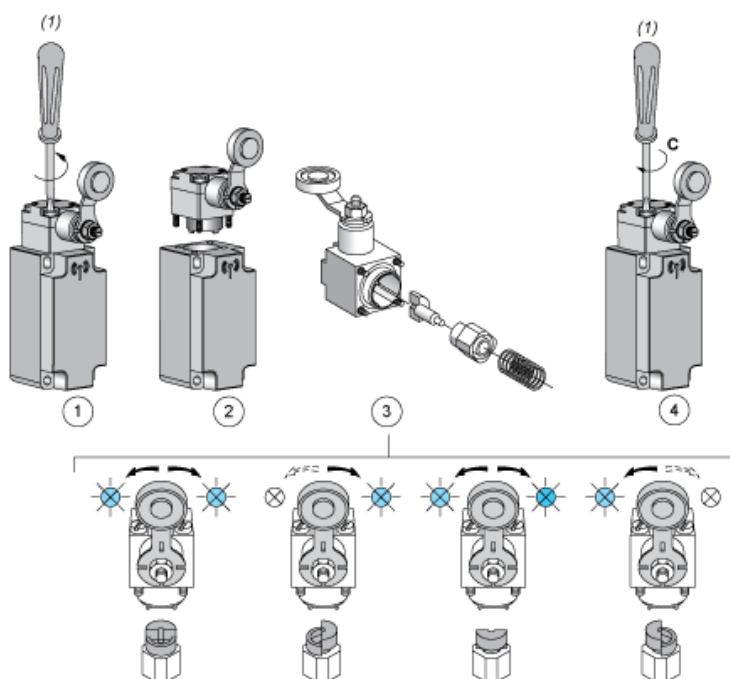

Mounting to be Avoided

Mounting

Head Orientation

(1)   PZ1, pozidriv screwdriver, size 1
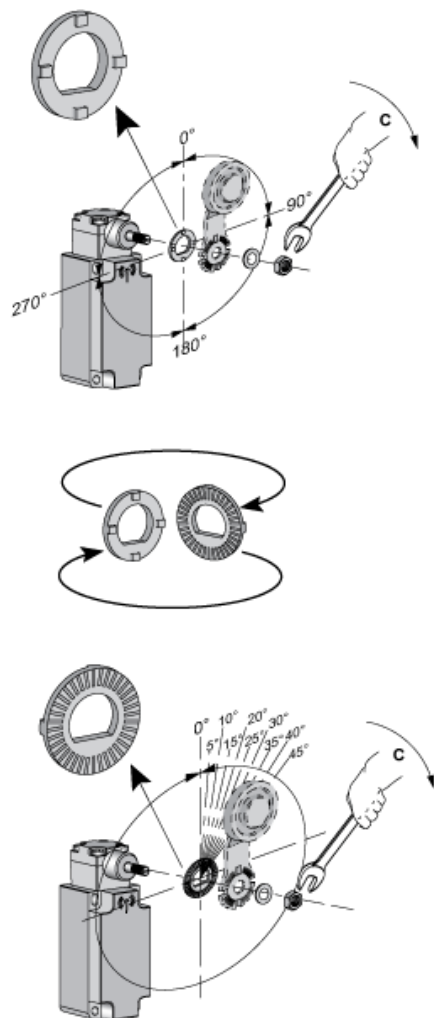C :   1 Nm (± 20 %) / 8.85 Ib-in (± 20 %)

Mounting

Actuator Direction Setting

(1)   PZ1, pozidriv screwdriver, size 1
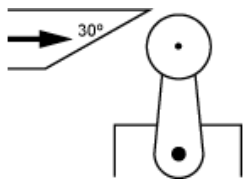C :   1 Nm (± 20 %) / 8.85 lb-in (± 20 %)

Mounting

Actuator Angle Setting

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

Characteristics of Actuation

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Technical Description

Functionnal Diagram, Travel Distance

(1)   Reset
(2)   Set

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