

XCKW139

Wireless limit switch XCKW - plastic roller Ø50 mm, 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

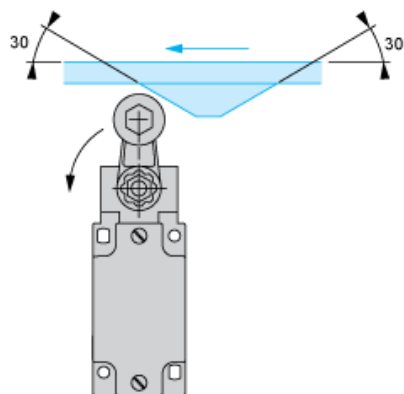
Body material	Plastic
Head material	Plastic
Lever material	Metal
Fixing mode	By 4 screws
Type of operator	Elastomer spring return roller lever with roller diameter 50 mm
Switch actuation	By 30° cam
Type of approach	1 or 2 programmable direction lateral approach
Communication network type	ZigBee green 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	40 m with receiver in metal enclosure and active antenna 25 m with receiver in metal enclosure 300 m with external antenna 100 m in free field
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	50 mm
Height	151 mm
Depth	68 mm
Product weight	0.22 kg

Environment

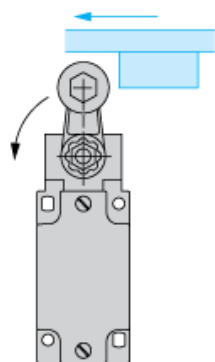
Electromagnetic compatibility	Electrostatic discharge immunity test : 8 kV, in free air (in insulating parts) Electrostatic discharge immunity test : 6 kV, on contact (on metal parts) Susceptibility to electromagnetic fields : 10 V/m, 80...2000 MHz Susceptibility to electromagnetic fields : 3 V/m, 80...2700 MHz, distance = 20 m Immunity for industrial environments Radiated emission
Shock resistance	(Duration = 11 ms) conforming to IEC 60068-2-27
Vibration resistance	25 gn (vibration frequency: 10...500 Hz) conforming to IEC 60068-2-6 +/- 10 mm (vibration frequency: 2...11 Hz) conforming to IEC 60068-2-6
IP degree of protection	IP66 conforming to IEC 60529 IP67 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 60947-5 EN/IEC 60947-5-5
Radio agreement	IC RSS FCC

Mounting with Rotary Head and Roller Lever

Recommended Mounting

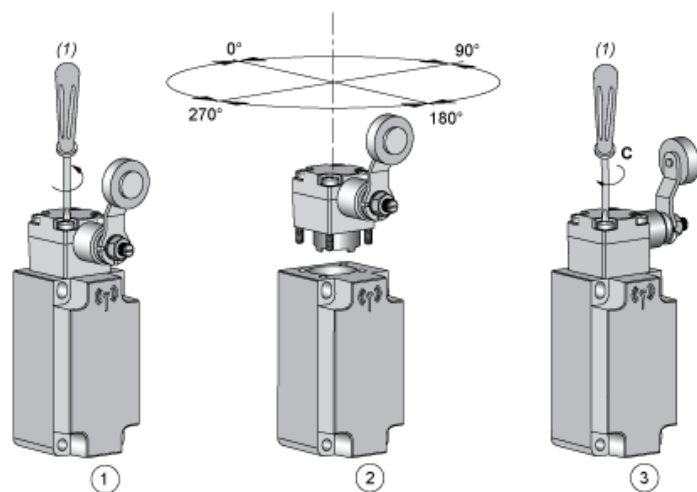


Mounting to be Avoided



Mounting

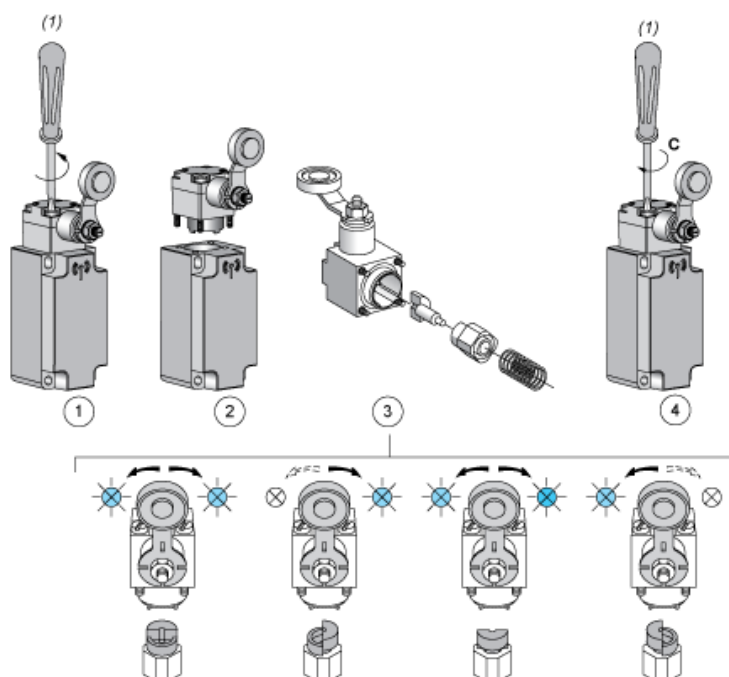
Head Orientation



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

Mounting

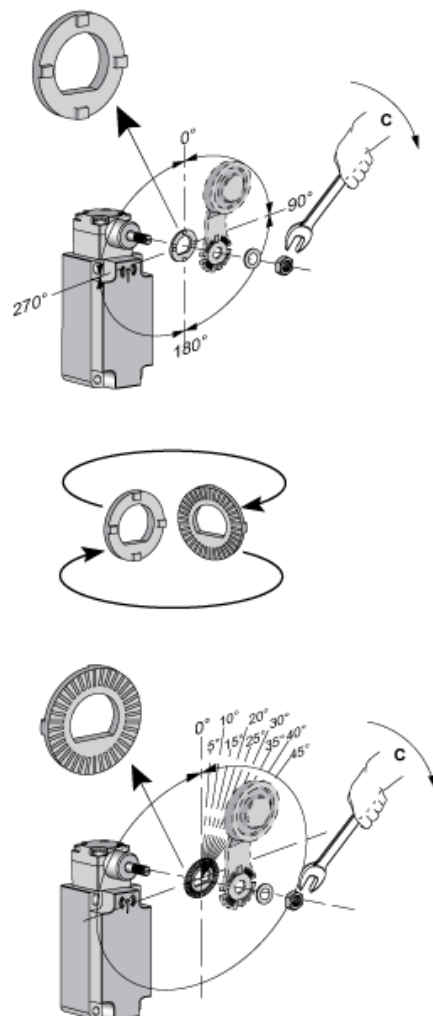
Actuator Direction Setting



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

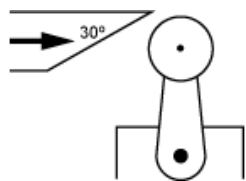
Mounting

Actuator Angle Setting



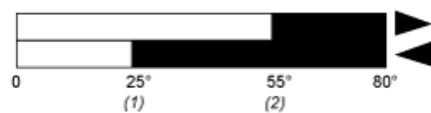
C : 1 Nm ($\pm 20\%$) / 8.85 lb-in ($\pm 20\%$)

Characteristics of Actuation



Technical Description

Functionnal Diagram, Travel Distance



- (1) Reset
(2) Set