

Limit switches

XCMW range

Wireless and batteryless limit switches

Miniature format

Transmission system for sensors

Characteristics of XCMW1●● limit switches

Environmental characteristics

Conformity to standards	Products	CE, EN/IEC 60947-5-1, UL 508, CSA C22-2 No. 14, CCC
	Machine assemblies	EN/IEC 60204-1
Product certifications		UL, CSA, CCC, UKCA
Protective treatment	Version	Standard: "TC"; Special: "TH"
Ambient air temperature	For operation	-25...+70 °C
	For storage	-40...+70 °C
Vibration resistance	Conforming to EN/IEC 60068-2-6	25 gn (10...500 Hz)
Shock resistance	Conforming to EN/IEC 60068-2-27	40 gn (11 ms)
Protection against electric shock	Conforming to EN/IEC 61140	Class II
Degree of protection	Conforming to EN/IEC 60529	IP65
	Conforming to EN 62262	IK04
Materials		Plastic body, metal head

Characteristics of XZBWR2STT24 receiver

Ambient air temperature	For operation	-20...+55 °C
	For storage	-40...+70 °C
Power supply		24 V $\bar{\bar{}}$ - 100 mA max.
Outputs		2 + 2 PNP (200 mA each output)
Degree of protection	Conforming to EN/IEC 60529	IP20
Display		1 LED for each output, 1 LED for the power supply, 1 LED for the signal current

Characteristics of XZBWE112A24 radio transmitter

Radio range in free field		100 m
Typical radio range in industrial environment		25 m
Ambient air temperature	For operation	-25...+55 °C
	For storage	-40...+70 °C
Power supply (transmitter only)		24 V - 15%
Output power supply for sensor or limit switch		24 V - 15%/+20% - 100 mA max. (no overload protection)
Start-up time		< 0.4 s
Response time		30 ms
Input frequency		< 0.5 Hz
Degree of protection	Conforming to EN/IEC 60529	IP67
Display		1 green or orange LED depending on the mode

Limit switches

XCMW range
Wireless and batteryless limit switches
Miniature format

Type of head	Plunger (fixing by the body)	Rotary (fixing by the body)					
--------------	------------------------------	-----------------------------	--	--	--	--	--



Type of operator	Metal end plunger	Steel roller plunger	Steel or thermoplastic roller lever (1) (2)	Variable length steel or thermoplastic roller lever (1) (2)	Thermoplastic roller lever, Ø 50 mm (1) (2)	Variable length thermoplastic roller lever, Ø 50 mm (1) (2)	Round thermoplastic rod lever, Ø 6 mm (2) (3) (4)
------------------	-------------------	----------------------	---	---	---	---	---

References

	XCMW110	XCMW102	XCMW115 (thermoplastic) XCMW116 (steel)	XCMW145 (thermoplastic) XCMW146 (steel)	XCMW139	XCMW149	XCMW159

Weight (kg)	0.040	0.045	0.085 0.090	0.095 0.100	0.100	0.110	0.080
-------------	-------	-------	----------------	----------------	-------	-------	-------

Receiver output status	<input checked="" type="checkbox"/> Closed <input type="checkbox"/> Open		(A) = Cam displacement				
------------------------	---	--	------------------------	--	--	--	--

Characteristics

Switch actuation	On end	By 30° cam					By any moving part
Type of actuation							
Maximum actuation speed	0.5 m/s	1.5 m/s					1 m/s
Mechanical durability (in millions of operating cycles)	25	15	20				
Minimum force or torque	For actuation	15 N	12 N	0.10 N.m			
	For positive opening	30 N	20 N	0.15 N.m	0.15 N.m	-	-

(1) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.
 (2) A limit switch without a lever can be ordered: reference XCMW101.
 (3) Adjustable throughout 360° in 5° steps, or in 45° steps by reversing the lever mounting.
 (4) Value taken with actuation by moving part 100 mm from the fixing.