Product data sheet Characteristics

ZB5RTC2

transmitter- Ø40 mm- Mushroom Head pushbutton -spring return



Main

Commercial Status	Commercialised		
Range of product	Harmony		
Product or component type	Wireless and batteryless transmitter		
Device short name	XB5R		
Bezel material	Plastic		
Fixing collar material	Plastic		
Mounting diameter	1.57 in (40 mm)		

Complementary

Shape of signaling unit head	Round		
Type of operator	Spring return pushbutton with transmitter		
Embedding depth	<= 1.69 in (43 mm)		
CAD overall height	1.68 in (42.75 mm)		
CAD overall width	1.09 in (27.8 mm)		
CAD overall depth	1.13 in (28.8 mm)		
Operating travel	0.17 in (4.3 mm) total travel		
Operating force	< 25 N C/O changing electrical state		
Mechanical robustness	Free fall resistance (test level: 1000 mm) conforming to EN/IEC 60068-2-32		
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14		
Radio agreement	SRRC RSS ICASA FCC ARIB T66 ANATEL		
Communication port protocol	Zigbee (green power) at 2.4 GHz		
Maximum sensing distance	300 m transmitter in box type XAL D, receiver in metal enclosure and use relayantenna 82.02 ft (25 m) transmitter in a plastic box type XAL D and receiver in a metal enclosure 328.08 ft (100 m) in free field		
Acquisition time	2 ms		
Response time	< 2 ms		
Emission power	3 mW		
Fixing mode	Fixing nut beneath head, nominal torque: 19.47 lbf.in (2.2 N.m) (tolerance: +/- 0.2 N.m)		
Device composition	ZBRT1 ZB5RZC2		

_							
F	n	71	ro	n	m	Δ	n

Environment				
Ambient air temperature for storage	-40158 °F (-4070 °C)			
Ambient air temperature for operation	-13158 °F (-2570 °C)			
Relative humidity	95 % at 158 °F (70 °C) without condensation			
IP degree of protection	IP65 on front face conforming to UL Type 12 IP30 on back face conforming to IEC 60529 IP65 on front face conforming to IEC 60529			
IK degree of protection	IK03 conforming to IEC 50102			
Mechanical durability	1000000 cycles			
Shock resistance	25 gn (duration = 6 ms) for 6000 shocks conforming to IEC 60068-2-27 50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27 30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27			
Vibration resistance	+/- 10 mm (f= 211 Hz) conforming to IEC 60068-2-6			
Electromagnetic compatibility	Radiated emission Susceptibility to electromagnetic fields (test level:3 V/m - 802700 MHz, distance = 20 m) Susceptibility to electromagnetic fields (test level:10 V/m - 802000 MHz) Electrostatic discharge immunity test (test level:6 kV - on contact (on metal parts)) Electrostatic discharge immunity test (test level:8 kV - in free air (in insulating parts)) Immunity for industrial environments			
Product certifications	CCC CSA C-Tick GOST UL BT 2006/95/EC EMC directive 2004/108/EC R&TTE directive 1999/5/EC			

