



Main

Range of product	Harmony XB5
Product or component type	Wireless and batteryless transmitter
Device short name	XB5R
Bezel material	Chromium plated metal
Fixing collar material	Zamak
Mounting diameter	0.87 in (22 mm)
Transmission frequency	2405 MHz
Emission class	5M00G7W
Antenna type	Omnidirectional

Complementary

Shape of signaling unit head	Round
Type of operator	Spring return push-button with transmitter
Operator profile	Yellow flush
Max power consumption in W	1 mW
Number of channels	1
Modulation technique	O-QPSK
Bandwidth	5 MHz
Antenna gain	0 dBi
Embedding depth	1.65 in (42 mm)
CAD overall height	1.63 in (41.5 mm)
CAD overall width	1.18 in (30 mm)
CAD overall depth	1.69 in (43 mm)
Net Weight	0.10 lb(US) (0.045 kg)
Operating travel	0.17 in (4.3 mm) total travel)
Operating force	25 N C/O changing electrical state
Mechanical robustness	Free fall resistance 1000 mm EN/IEC 60068-2-32
Standards	EN/IEC 60947-1 CSA C22.2 No 14 UL 508 EN/IEC 60947-5-1
Radio agreement	ANATEL ARIB T66 FCC ICASA RSS SRRC
Communication port protocol	Zigbee green power 2.4 GHz IEEE 802.15.4
Maximum sensing distance	328.08 Ft (100 m) in free field 82.02 Ft (25 m) transmitter in a plastic box type XAL D and receiver in a metal enclosure 984.25 ft (300 m) transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna
Acquisition time	2 ms
Response time	< 2 ms
Emission power	3 mW
Fixing mode	Fixing screw beneath head 7.08...10.62 lbf.in (0.8...1.2 N.m)
Electrical composition code	PW1

Environment

Protective treatment	TH
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
Ambient air temperature for operation	-13...131 °F (-25...55 °C)
Relative humidity	95 % 158 °F (70 °C) without condensation
IP degree of protection	IP65 IEC 60529 front face) IP30 IEC 60529 back face) IP65 UL Type 12 front face)
IK degree of protection	IK03 IEC 50102
Mechanical durability	1000000 cycles
Shock resistance	25 gn 6 ms) 6000 shocks IEC 60068-2-27 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27
Vibration resistance	5 gn 11...500 Hz)IEC 60068-2-6 +/- 10 mm 2...11 Hz)IEC 60068-2-6
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
Product certifications	UL CSA CCC C-tick GOST BT 2006/95/EC
Directives	1999/5/EC - R&TTE directive 2004/108/EC - electromagnetic compatibility

Ordering and shipping details

Category	22470 - XB5R WIRELESS PUSH BUTTON
Discount Schedule	I
GTIN	00785901705802
Nbr. of units in pkg.	1
Package weight(Lbs)	0.2 lb(US) (0.09 kg)
Returnability	No
Country of origin	FR

Packing Units

Package 1 Height	0.860 dm
Package 1 width	0.340 dm
Package 1 Length	0.530 dm

Offer Sustainability

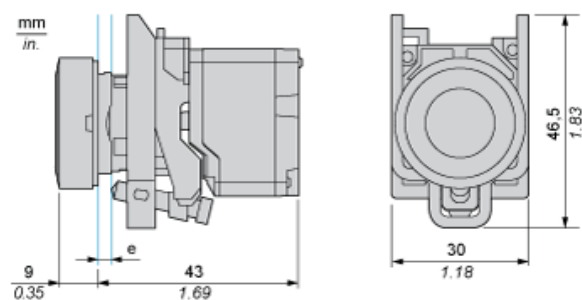
Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
----------	-----------

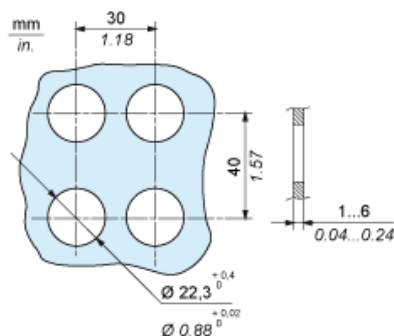
Wireless and Batteryless Pushbutton - Transmitter

With Metal Pushbutton without Cap

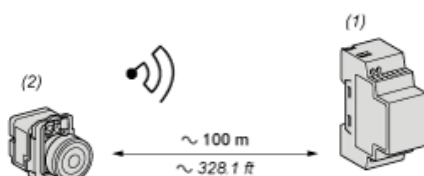


e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

Transmitter Mounting

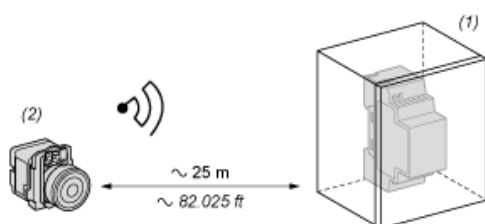


Transmitter Clearance in Free Field Unobstructed



- (1): Receiver
(2): Transmitter

Transmitter Clearance in a Metal Enclosure



- (1): Metal enclosure
(2): Transmitter

The range is reduced if the transmitter is placed in a metal enclosure (reduction factor: approx 10%)

Glass window	10...20 %
Plaster wall	30...45 %
Brick wall	60 %
Concrete wall	70...80 %
Metal structure	50...100 %