

MR-GQ16 series

- ☆ the installation aperture is $\Phi 16\text{mm}$;
- ☆ the switch is "self recovery | slow action | single pole single throw";
- ☆ this series is the main series of the company, which is very rich in the selection of head shape, lamp type, wiring type and shell material (refer to the details page for details);
- ☆ waterproof grade IP65/IP67.

GQ16 series model description

MR-GQ16★-□◇/◆/△/▲/◎

Symbol	Symbol name	Specify
★	Head shape	B: spherical / F: Flat round / H: High round
□	Contact Structure	10: 1NO / No digital means indicator / Some products can be customized with 1NC
◇	Illuminated Type	D: ● Dot illuminated / E: ○ Ring illuminated / ET: ◎ Ring+power symbol illuminated / No letters mean no lights
◆	Wiring type	J: Wiring patch / No letters means terminals
△	Color	R: Red / G: Green / Y: Yellow / B: Blue / W: White
▲	Voltage	6V / 12V / 24V All have built-in resistors, other voltage levels can be customized.
◎	Housing Material	N: Nickel plated Brass / S: Stainless steel / A: Aluminium alloy (Black)

Note: Please read the catalog carefully, and choose the right part-number according to the sign.

Performance Characteristic

Operating Temp	-25℃~+55℃ (Non freezing) Keep the switch air circulating well
Operating Humidity	45~85% RH(Non condensing)
Contact Resistance	$\leq 50\text{m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$ (500VDC)
Max. withstanding voltage	1500VAC, 50Hz, 1min
Vibration resistance	50Hz, The amplitude is about 1.2mm
Solder heat resistance	320℃ 3s
Switch rating	2A/36VDC 0.5A/220V
Mechanical Life	1,000,000 cycles
Electrical Life	50,000 cycles
Base material	PBT(Products without lights) / PA(Products with lamps)
Nut torque	About 0.6Nm
Torque	About 4N
Operation Travel	About 24mm
Protection class	IP65(IP67 can be customized),IK08

Standards and certification

Corresponding standard	Certification mark	Certification authority / certification number
GB/T 14048.5-2017		
UL508		
EN61058-1:2018		

Switch structure description

Type	Diagram	Symbol
X		
Y		

LED Specifications

LED life	Current	Allowable voltage fluctuation range	Circuit diagram
≥ 40000 hours	$\leq 24\text{V}$ about 15mA $\geq 110\text{V}$ about 2mA	DC: $\pm 10\%$	The product has built-in protective resistance, and the lamp bead wiring has no distinction between positive and negative poles.

PART NUMBERS ON THIS DRAWING

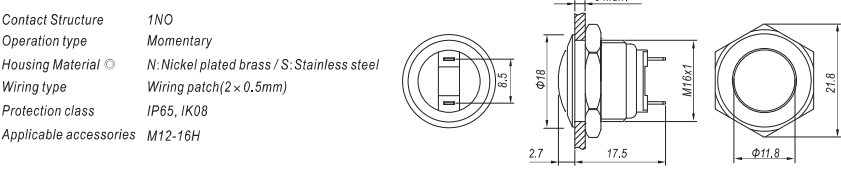
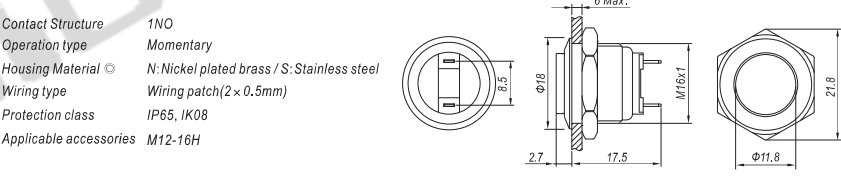
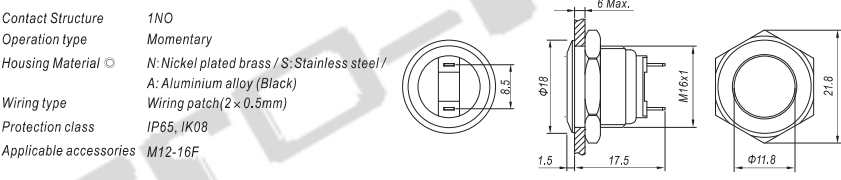
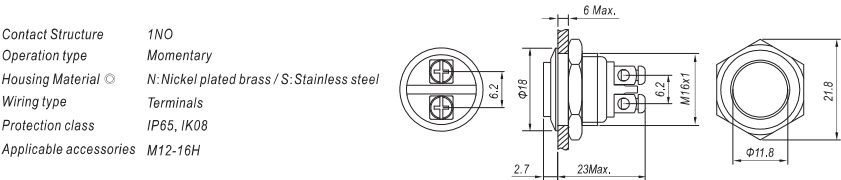
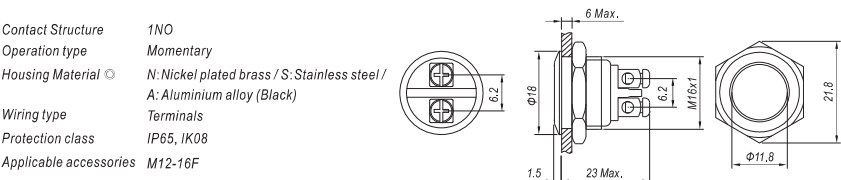
MR-GQ16B-10 MR-GQ16B-10-J MR-GQ16B-10D MR-GQ16B-10D-J MR-GQ16B-10E MR-GQ16B-10E-J
MR-GQ16F-10 MR-GQ16F-10-J MR-GQ16F-10D MR-GQ16F-10D-J MR-GQ16F-10E MR-GQ16F-10E-J
MR-GQ16F-10ET MR-GQ16F-10ET-J MR-GQ16H-10 MR-GQ16H-10-J MR-GQ16H-10D MR-GQ16H-10D-J
MR-GQ16H-10E MR-GQ16H-10E-J MR-GQ16M-10

16 MM ANTI-VANDAL PUSH BUTTON

MR-GQ16 SERIES

Micro-Ray

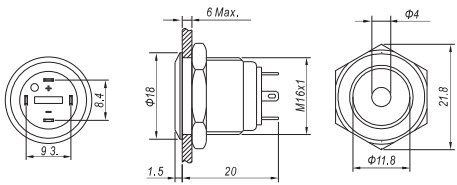
PART NO	MR-GQ16	SHEET	1 OF 5	REV	A
DWG NO	MR-GQ16	SIZE	A4	DATE	2026-09-22
UNITS: mm	SCALE: NTS - DO NOT SCALE				



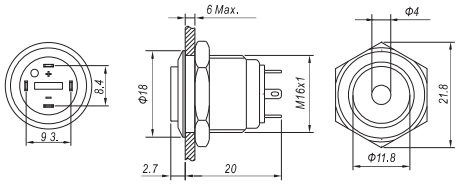
PART NUMBERS ON THIS DRAWING
MR-GQ16B-10 MR-GQ16B-10-J MR-GQ16B-10D MR-GQ16B-10D-J MR-GQ16B-10E MR-GQ16B-10E-J
MR-GQ16F-10 MR-GQ16F-10-J MR-GQ16F-10D MR-GQ16F-10D-J MR-GQ16F-10E MR-GQ16F-10E-J
MR-GQ16F-10ET MR-GQ16F-10ET-J MR-GQ16H-10 MR-GQ16H-10-J MR-GQ16H-10D MR-GQ16H-10D-J
MR-GQ16H-10E MR-GQ16H-10E-J MR-GQ16M-10

16 MM ANTI-VANDAL PUSH BUTTON				
MR-GQ16 SERIES				
PART NO	MR-GQ16			
DWG NO	MR-GQ16		SHEET 2 OF 5	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE		SIZE A4	DATE 2026-09-22

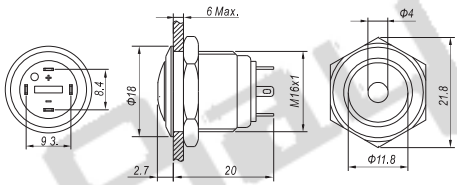
Contact Structure 1NO
Operation type Momentary
Color△ **R G Y B W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Wiring patch(2×0.5mm)
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16F



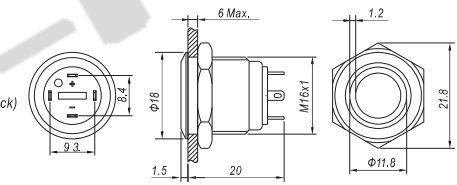
Contact Structure 1NO
Operation type Momentary
Color△ **R G Y B W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Wiring patch(2×0.5mm)
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16H



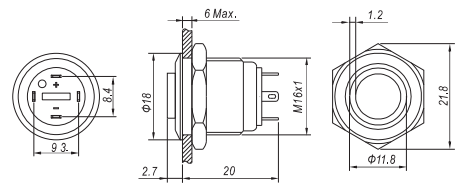
Contact Structure 1NO
Operation type Momentary
Color△ **R G Y B W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Wiring patch(2×0.5mm)
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16H



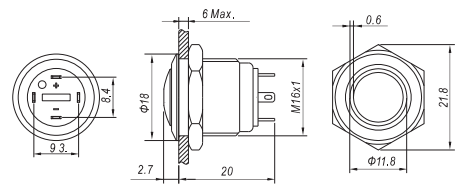
Contact Structure 1NO
Operation type Momentary
Color△ **R G Y B W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material S: Stainless steel / A: Aluminium alloy (Black)
Wiring type Wiring patch(2×0.5mm)
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16F



Contact Structure 1NO
Operation type Momentary
Color△ **R G Y B W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Wiring patch(2×0.5mm)
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16H



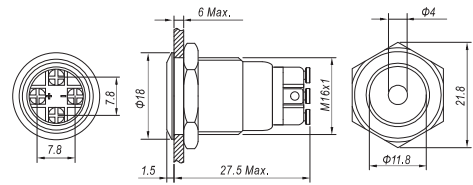
Contact Structure 1NO
Operation type Momentary
Color△ **R G Y B W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Wiring patch(2×0.5mm)
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16H



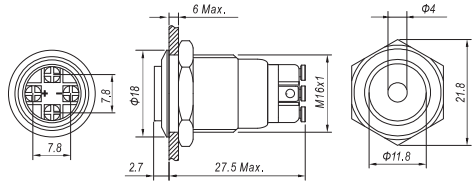
PART NUMBERS ON THIS DRAWING
MR-GQ16B-10 MR-GQ16B-10-J MR-GQ16B-10D MR-GQ16B-10D-J MR-GQ16B-10E MR-GQ16B-10E-J
MR-GQ16F-10 MR-GQ16F-10-J MR-GQ16F-10D MR-GQ16F-10D-J MR-GQ16F-10E MR-GQ16F-10E-J
MR-GQ16F-10ET MR-GQ16F-10ET-J MR-GQ16H-10 MR-GQ16H-10-J MR-GQ16H-10D MR-GQ16H-10D-J
MR-GQ16H-10E MR-GQ16H-10E-J MR-GQ16M-10

16 MM ANTI-VANDAL PUSH BUTTON			
MR-GQ16 SERIES			
PART NO	MR-GQ16		
DWG NO	MR-GQ16	SHEET 3 OF 5	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

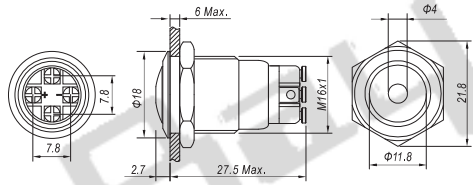
Contact Structure 1NO
Operation type Momentary
Color△ **R** **G** **Y** **B** **W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Terminals
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16F



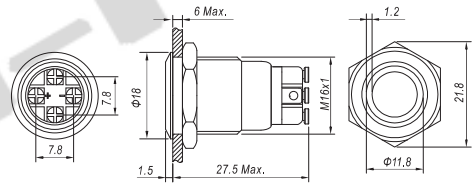
Contact Structure 1NO
Operation type Momentary
Color△ **R** **G** **Y** **B** **W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Terminals
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16H



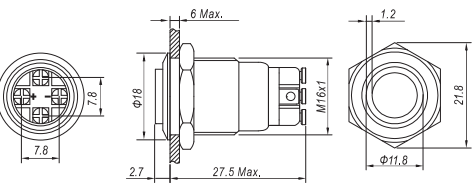
Contact Structure 1NO
Operation type Momentary
Color△ **R** **G** **Y** **B** **W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Terminals
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16H



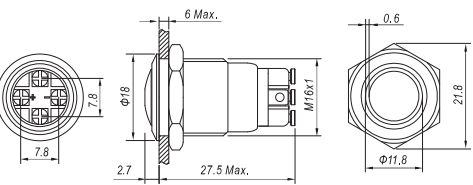
Contact Structure 1NO
Operation type Momentary
Color△ **R** **G** **Y** **B** **W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Terminals
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16F



Contact Structure 1NO
Operation type Momentary
Color△ **R** **G** **Y** **B** **W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Terminals
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16H



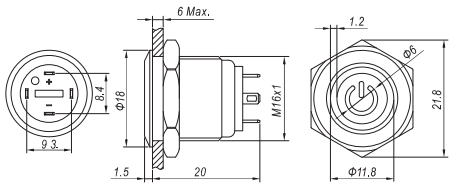
Contact Structure 1NO
Operation type Momentary
Color△ **R** **G** **Y** **B** **W**
Voltage▲ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Terminals
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16H



PART NUMBERS ON THIS DRAWING
MR-GQ16B-10 MR-GQ16B-10-J MR-GQ16B-10D MR-GQ16B-10D-J MR-GQ16B-10E MR-GQ16B-10E-J
MR-GQ16F-10 MR-GQ16F-10-J MR-GQ16F-10D MR-GQ16F-10D-J MR-GQ16F-10E MR-GQ16F-10E-J
MR-GQ16F-10ET MR-GQ16F-10ET-J MR-GQ16H-10 MR-GQ16H-10-J MR-GQ16H-10D MR-GQ16H-10D-J
MR-GQ16H-10E MR-GQ16H-10E-J MR-GQ16M-10

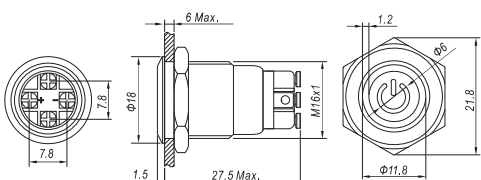
16 MM ANTI-VANDAL PUSH BUTTON			
MR-GQ16 SERIES			
PART NO	MR-GQ16		
DWG NO	MR-GQ16	SHEET 4 OF 5	REV A
UNITS: mm	SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22

Contact Structure 1NO
Operation type Momentary
Color $\triangle$ **R** **G** **Y** **B** **W**
Voltage $\blacktriangle$ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Wiring patch(2 x 0.5mm)
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16F

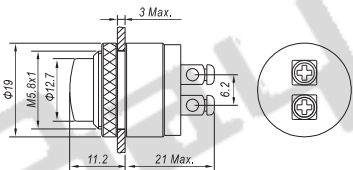


GQ16F-10ET/ $\triangle$ / $\blacktriangle$ / S

Contact Structure 1NO
Operation type Momentary
Color $\triangle$ **R** **G** **Y** **B** **W**
Voltage $\blacktriangle$ 6V / 12V / 24V / 110V / 220V
Housing Material Stainless steel
Wiring type Terminals
Protection class IP65(IP67 can be customized), IK08
Applicable accessories M12-16F



Switch rating 0.2A / 24V
Contact Structure 1NO
Operation type Momentary
Housing Material brass
Wiring type Terminals
Protection class IP65, IK08



PART NUMBERS ON THIS DRAWING

MR-GQ16B-10 MR-GQ16B-10-J MR-GQ16B-10D MR-GQ16B-10D-J MR-GQ16B-10E MR-GQ16B-10E-J
MR-GQ16F-10 MR-GQ16F-10-J MR-GQ16F-10D MR-GQ16F-10D-J MR-GQ16F-10E MR-GQ16F-10E-J
MR-GQ16F-10ET MR-GQ16F-10ET-J MR-GQ16H-10 MR-GQ16H-10-J MR-GQ16H-10D MR-GQ16H-10D-J
MR-GQ16H-10E MR-GQ16H-10E-J MR-GQ16M-10

16 MM ANTI-VANDAL PUSH BUTTON				
MR-GQ16 SERIES				
PART NO	MR-GQ16			
DWG NO	MR-GQ16		SHEET 5 OF 5	REV A
UNITS: mm		SCALE: NTS - DO NOT SCALE	SIZE A4	DATE 2026-09-22