

Momentary & Maintained Mushroom With Lamp



Order No.	Model
31010000144	DT22M-MRD11/RDAC/DC24V
Customizable	DT22M-MRD11/BUAC/DC24V
31010000145	DT22M-MRD11/GNAC/DC24V
Customizable	DT22M-MRD11/YEAC/DC24V
Customizable	DT22M-MRD11/WHAC/DC24V
31010000146	DT22M-MLD11/RDAC/DC24V
Customizable	DT22M-MLD11/BUAC/DC24V
31010000147	DT22M-MLD11/GNAC/DC24V
Customizable	DT22M-MLD11/YEAC/DC24V
Customizable	DT22M-MLD11/WHAC/DC24V

Pilot lamp & buzzer



Order No.	Model
31020000001	DT22A-PL/RDAC/DC24VS
31020000002	DT22A-PL/BUAC/DC24VS
31020000003	DT22A-PL/GNAC/DC24VS
31020000004	DT22A-PL/YEAC/DC24VS
31020000005	DT22A-PL/WHAC/DC24VS
31020000006	DT22A-BZ/BLAC/DC24VL
31020000007	DT22A-FBZ/RDAC/DC24VL

Application



Mechanical Manufacturing



Power



Elevator



Rail Transit



Wind Power



Engineering Machinery



Naming rule description

DT22A- □ ■ / △ ▲

Corresponding character	Symbol name	Specific description
DT22A	Product series	DT22A: Φ22 plastic button / DT22M: Φ22 metal button
□	Actuator type	FR: Flat reset / FL: Flat lock / FRD: Flat reset indicator
■	Contact form	10: 1NO / 01: 1NC / 11: 1NO1NC
△	Color	RD: red / GN: green / YE: yellow / WH: White / BU: blue / BL: black
▲	Lamp module voltage	AC/DC:6,12,24,36,48,110,220V/AC:110,220,380V / no letters means no lights

Example of Complete Model: DT22A-FR11/RD red self-leveling button (1NO1NC).

Example of Complete Model: DT22A-FRD11/RDAC/DC24V Red self-leveling button with light (1NO1NC AC/DC24V)

DT22A- □ / △ ▲ ◇

Corresponding character	Symbol name	Specific description
DT22A	Product series	DT22A: Φ22 series indicator light
□	Product type	PL: indicator / BZ: buzzer / FBZ: flash buzzer
△	Color	RD: red / GN: green / YE: yellow / WH: White / BU: blue / BL: black (for buzzer only)
▲	Voltage level	AC/DC:6,12,24,36,48,110,220V/AC:110,220,380V
◇	Product specification	S: short / L: long

Naming rule comments

Product series	Actuator type	
DT22A/ DT22M:	FR: (Flat reset)	S2RD: (selector 2 switch reset indicator)
	FL: (Flat lock)	S2LD: (selector 2 switch lock indicator)
	FRH: (Flat reset high)	S3R: (selector 3 switch reset)
	FLH: (Flat lock high)	S3L: (selector 3 switch lock)
	FRD: (Flat reset indicator)	S31: Left self-locking right self-repeating three-position selector switch
	FLD: (Flat lock indicator)	S32: Left self-locking right self-repeating three-position selector switch
	FRHD: (Flat reset high indicator)	S3RD: (selector 3 switch reset indicator)
	FLHD: (Flat lock high indicator)	S3LD: (selector 3 switch lock indicator)
	MR: (Mushroom reset)	S31D: Left self-locking right self-repeating three-position trap selector switch with light
	ML: (Mushroom lock)	S32D: Left self-locking right self-repeating three-position trap selector switch with light
	MRD: (Mushroom reset indicator)	K2R: (Key-lock selector 2 switch reset)
	MLD: (Mushroom lock indicator)	K2L: (Key-lock selector 2 switch lock)
	EP: (Emergency)	K3R: (Key-lock selector 3 switch reset)
	S2R: (selector 2 switch reset)	K3L: (Key-lock selector 3 switch lock)
	S2L: (selector 2 switch lock)	K3S1: Left self-locking right self-repeating three-position button switch
		K3S2: Left self-locking right self-repeating three-position button switch

Contact form	Color	Lamp module voltage
10: 1NO	RD: Red	Voltage level AC/DC:
01: 1NC	GN: Green	6,12,24,36,48,110,220V
11: 1NO1NC	YE: Yellow	AC:110,220,380V
20: 2NO	WH: White	
02: 2NC	BU: Blue	
22: 2NO2NC	BL: Black	
30: 3NO		
03: 3NC		
33: 3NO3NC		

DT Series Push Button





Features

- Installation aperture: $\Phi 22\text{mm}$
- Button material: DT22A series are plastic buttons: DT22M series are metal buttons
- Self-locking connection without fasteners, reliable contact, efficient disassembly and assembly
- The product has strong anti-impact and anti-vibration performance, and is suitable for use in all kinds of harsh environment
- The products meet the standards such as IEC60947-5-1GB/T14048.5
- Protection level IP40, IP65 (customizable)

Main Technical Parameters

Working environment temperature	-25°C~+55°C (no freezing)
Working environment humidity	45-85%RH
Contact resistance	$\leq 50\text{m}\Omega$
Insulation resistance	$\geq 100\text{M}\Omega$
Power frequency withstand voltage	1890VAC / 50Hz / 60s
Resistance to vibration	The amplitude is about 1.0mm / 50Hz
Impact resistance	> 10g

Mechanical life	Button	$\geq 2,000,000$ times
	Knob, key knob	$\geq 500,000$ times
	Emergency stop button	$\geq 300,000$ times
Electrical life		$\geq 200,000$ times
Wiring		Screw connection, wire diameter: 2x1.5mm Maximum wiring plug 6.3x 0.8mm

Lamp Bead Specification

Types of lamp beads	Bi-directional LED lamp beads		
Rated voltage	AC/DC 6V	AC/DC 12V	AC/DC 24V
	AC/DC 36V	AC/DC 48V	AC/DC 110V
	AC/DC 220V	AC/DC 380V	/
	AC 110V	AC 220V	AC 380V
Lamp color	Red Green Yellow Blue White		
Service Life	$\geq 40000\text{h}$		

Switch Rating

Rated insulation voltage U_i	660V				
Conventional heating current I_{th}	10A				
Rated operating voltage U_e	24V	48V	110V	380V	
	24V	48V	110V	380V	
Rated working current I_e	AC 50/60Hz	Resistive load	10A	/	
		Inductive load	10A	/	
	DC	Resistive load	8A	4A	2.2A
		Inductive load	6A	2A	1.2A
Contact material	Silver alloy				
Minimum adaptive load: 3V AC/DC5mA (Reference value) (available depending on the environment and load type)					

Momentary & Maintained Flat



Order No.	Model
3101000001	DT22A-FR11/RD
3101000003	DT22A-FR11/BU
3101000004	DT22A-FR11/GN
3101000005	DT22A-FR11/YE
3101000006	DT22A-FR11/WH
3101000007	DT22A-FR11/BL
3101000008	DT22A-FL11/RD
3101000009	DT22A-FL11/BU
3101000010	DT22A-FL11/GN
3101000011	DT22A-FL11/YE
3101000012	DT22A-FL11/WH
3101000013	DT22A-FL11/BL

Momentary & Maintained Flat High



Order No.	Model
3101000014	DT22A-FRH11/RD
3101000015	DT22A-FRH11/BU
3101000016	DT22A-FRH11/GN
3101000017	DT22A-FRH11/YE
3101000018	DT22A-FRH11/WH
3101000019	DT22A-FRH11/BL
3101000020	DT22A-FLH11/RD
3101000021	DT22A-FLH11/BU
3101000022	DT22A-FLH11/GN
3101000023	DT22A-FLH11/YE
3101000024	DT22A-FLH11/WH
3101000025	DT22A-FLH11/BL

Selector Switch With Lamp



Order No.	Model
3101000049	DT22A-S2RD11/RDAC/DC24V
3101000050	DT22A-S2RD11/BUAC/DC24V
3101000051	DT22A-S2RD11/GNAC/DC24V
3101000054	DT22A-S2LD11/RDAC/DC24V
3101000055	DT22A-S2LD11/BUAC/DC24V
3101000056	DT22A-S2LD11/GNAC/DC24V
3101000071	DT22A-S3RD11/RDAC/DC24V
3101000072	DT22A-S3RD11/BUAC/DC24V
3101000073	DT22A-S3RD11/GNAC/DC24V
3101000076	DT22A-S3LD11/RDAC/DC24V
3101000077	DT22A-S3LD11/BUAC/DC24V
3101000078	DT22A-S3LD11/GNAC/DC24V

Momentary & Maintained Flat With Lamp



Order No.	Model
3101000026	DT22A-FRD11/RDAC/DC24V
3101000027	DT22A-FRD11/BUAC/DC24V
3101000028	DT22A-FRD11/GNAC/DC24V
3101000029	DT22A-FRD11/YEAC/DC24V
3101000030	DT22A-FRD11/WHAC/DC24V
3101000031	DT22A-FLD11/RDAC/DC24V
3101000032	DT22A-FLD11/BUAC/DC24V
3101000033	DT22A-FLD11/GNAC/DC24V
3101000034	DT22A-FLD11/YEAC/DC24V
3101000035	DT22A-FLD11/WHAC/DC24V

Momentary & Maintained Mushroom With Lamp



Order No.	Model
3101000065	DT22A-MRD11/RDAC/DC24V
Customizable	DT22A-MRD11/BUAC/DC24V
3101000066	DT22A-MRD11/GNAC/DC24V
Customizable	DT22A-MRD11/YEAC/DC24V
Customizable	DT22A-MRD11/WHAC/DC24V
3101000067	DT22A-MLD11/RDAC/DC24V
Customizable	DT22A-MLD11/BUAC/DC24V
3101000068	DT22A-MLD11/GNAC/DC24V
Customizable	DT22A-MLD11/YEAC/DC24V
Customizable	DT22A-MLD11/WHAC/DC24V

Momentary & Maintained Mushroom



Order No.	Model
3101000063	DT22A-MR11/RD
Customizable	DT22A-MR11/BU
Customizable	DT22A-MR11/GN
Customizable	DT22A-MR11/YE
Customizable	DT22A-MR11/WH
3101000064	DT22A-ML11/RD
Customizable	DT22A-ML11/BU
Customizable	DT22A-ML11/GN
Customizable	DT22A-ML11/YE
Customizable	DT22A-ML11/WH

Selector Switch



Order No.	Model
3101000047	DT22A-S2R11/BL
3101000048	DT22A-S2L11/BL
3101000069	DT22A-S3R11/BL
3101000070	DT22A-S3L11/BL

Key-lock selector switch



Order No.	Model
3101000059	DT22A-K2R11/BL
3101000060	DT22A-K2L11/BL
3101000061	DT22A-K3R11/BL
3101000062	DT22A-K3L11/BL

Emergency Push Button



Order No.	Model
3101000046	DT22A-EP11/RD

Momentary & Maintained Flat



Order No.	Model
3101000081	DT22M-FR11/RD
3101000082	DT22M-FR11/BU
3101000083	DT22M-FR11/GN
3101000084	DT22M-FR11/YE
3101000085	DT22M-FR11/WH
3101000086	DT22M-FR11/BL
3101000087	DT22M-FL11/RD
3101000088	DT22M-FL11/BU
3101000089	DT22M-FL11/GN
3101000090	DT22M-FL11/YE
3101000091	DT22M-FL11/WH
3101000092	DT22M-FL11/BL

Momentary & Maintained Flat High



Order No.	Model
3101000093	DT22M-FRH11/RD
3101000094	DT22M-FRH11/BU
3101000095	DT22M-FRH11/GN
3101000096	DT22M-FRH11/YE
3101000097	DT22M-FRH11/WH
3101000098	DT22M-FRH11/BL
3101000099	DT22M-FLH11/RD
3101000100	DT22M-FLH11/BU
3101000101	DT22M-FLH11/GN
3101000102	DT22M-FLH11/YE
3101000103	DT22M-FLH11/WH
3101000104	DT22M-FLH11/BL

Selector Switch With Lamp



Order No.	Model
3101000128	DT22M-S2RD11/RDAC/DC24V
3101000129	DT22M-S2RD11/BUAC/DC24V
3101000130	DT22M-S2RD11/GNAC/DC24V
3101000133	DT22M-S2LD11/RDAC/DC24V
3101000134	DT22M-S2LD11/BUAC/DC24V
3101000135	DT22M-S2LD11/GNAC/DC24V
3101000150	DT22M-S3RD11/RDAC/DC24V
3101000151	DT22M-S3RD11/BUAC/DC24V
3101000152	DT22M-S3RD11/GNAC/DC24V
3101000155	DT22M-S3LD11/RDAC/DC24V
3101000156	DT22M-S3LD11/BUAC/DC24V
3101000157	DT22M-S3LD11/GNAC/DC24V

Momentary & Maintained Flat With Lamp



Order No.	Model
3101000105	DT22M-FRD11/RDAC/DC24V
3101000106	DT22M-FRD11/BUAC/DC24V
3101000107	DT22M-FRD11/GNAC/DC24V
3101000108	DT22M-FRD11/YEAC/DC24V
3101000109	DT22M-FRD11/WHAC/DC24V
3101000110	DT22M-FLD11/RDAC/DC24V
3101000111	DT22M-FLD11/BUAC/DC24V
3101000112	DT22M-FLD11/GNAC/DC24V
3101000113	DT22M-FLD11/YEAC/DC24V
3101000114	DT22M-FLD11/WHAC/DC24V

Momentary & Maintained Flat High With Lamp



Order No.	Model
3101000115	DT22M-FRH11/RDAC/DC24V
3101000116	DT22M-FRH11/BUAC/DC24V
3101000117	DT22M-FRH11/GNAC/DC24V
3101000118	DT22M-FRH11/YEAC/DC24V
3101000119	DT22M-FRH11/WHAC/DC24V
3101000120	DT22M-FLHD11/RDAC/DC24V
3101000121	DT22M-FLHD11/BUAC/DC24V
3101000122	DT22M-FLHD11/GNAC/DC24V
3101000123	DT22M-FLHD11/YEAC/DC24V
3101000124	DT22M-FLHD11/WHAC/DC24V

Momentary & Maintained Mushroom



Order No.	Model
3101000142	DT22M-MR11/RD
Customizable	DT22M-MR11/BU
Customizable	DT22M-MR11/GN
Customizable	DT22M-MR11/YE
Customizable	DT22M-MR11/WH
3101000143	DT22M-ML11/RD
Customizable	DT22M-ML11/BU
Customizable	DT22M-ML11/GN
Customizable	DT22M-ML11/YE
Customizable	DT22M-ML11/WH

Selector Switch



Order No.	Model
3101000126	DT22M-S2R11/BL
3101000127	DT22M-S2L11/BL
3101000148	DT22M-S3R11/BL
3101000149	DT22M-S3L11/BL

Key-lock selector switch



Order No.	Model
3101000138	DT22M-K2R11/BL
3101000139	DT22M-K2L11/BL
3101000140	DT22M-K3R11/BL
3101000141	DT22M-K3L11/BL

Emergency Push Button



Order No.	Model
3101000125	DT22M-EP11/RD