

Approvals and Standards (CCC)

ø16mm series Miniature Switches & Pilot Lights

Name	Model	Ratings	Applicable Standards
A6 series	AL6 AB6 AS6	250V AC, 0.5A (AC-12) 125V AC, 1A (AC-12) 110V DC, 0.2A (DC-12) 30V DC, 1A (DC-12)	GB14048.5
	AL6-P	5V DC 6, 12, 24V AC/DC	
H6 series	HA1B, HA2B, HA3B, HA4B HA1L, HA2L, HA3L, HA4L HA1S, HA3S HA1K, HA3K HA1F, HA3F HA1R	(gold-clad contacts) 125V AC, 0.1A (Res.) 30V DC, 0.1A (Res.) (silver contacts) 250V AC, 2A (Res.) 30V DC, 2A (Res.)	GB14048.5

ø12 to ø8mm series Miniature Switches & Pilot Lights

Name	Model	Ratings	Applicable Standards
A1, A2, A8 series	AL1 AB1	AC-12: 125Vac, 1A DC-12: 30Vdc, 1A	GB14048.5
	AL2 AB2	AC-12: 125Vac, 1A DC-12: 30Vdc, 1A	
	AL8 AB8	AC-12: 125Vac, 1A DC-12: 30Vdc, 1A	GB14048.5

ø22mm CW series Flush Silhouette Switches

Name	Model	Ratings	Applicable Standards
CW series	CW1B, CW4B	AC-15 120V/6A 240V/3A (A300)	GB14048.5
	CW1L, CW4L		
	CW1S, CW4S		
	CW1K, CW4K		
	CW1P, CW4P	6V, 12V, 24V AC/DC 100/120V, 200/220V, 230/240V AC	GB14048.5

ø22mm LW series Switches & Pilot Lights

Name	Model	Ratings	Applicable Standards
LW series	LW1 LW2 LW3 LW5 LW6 LW7	(gold-clad contacts) 125V AC, 0.1A (Res.) 30V DC, 0.1A (Res.) (silver contacts) 250V AC, 2A (Res.) 30V DC, 2A (Res.)	GB14048.5

ø22mm HW series Switches & Pilot Lights

Name	Model	Ratings	Applicable Standards
HW series	Pushlock turn reset	HW1B-V	AC-15 (250V 3A) DC-13 (125V 1.1A) (125V 0.9A)
	Pushbutton	HW1B, HW2B, HW3B	
	Pilot light	HW1P, HW2P	
	Illuminated pushbutton	HW1L, HW2L, HW3L	
	Twin pushbutton	HW7D	
	Selector switch	HW1S, HW1K, HW1F, HW1R	
	Mono lever switch	HW1M	

ø22mm TW series Switches & Pilot Lights

Name	Model	Ratings	Applicable Standards	
TW series	Pushbutton (Momentary) (Maintained)	ABW, ABQW, ABFW, ABGW AOW, AOQW, AOFW AOGW	AC-15 (250V AC, 3A) DC-13 (125V DC, 1.1A)	
	(Push lock turn reset) (Push turn lock) (Push-pull) (Pushlock key reset)	AVW AJW AYW, AXW AXHW		
	Illuminated pushbutton (Momentary) (Maintained) (Push lock turn reset) (Push-pull)	ALW, ALQW, ALFW AOLW, AOLQW, AOLFW AVLW AYLW		
	Selector switch	ASW, ASW□L, ASW□M, ASW□K		
	Illuminated selector switch	ASLW		
	Pilot light	APW, UPQW		Full voltage 6, 12, 24, 28V AC/DC Transformer 100V to 480V AC

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ø22mm MW series Switches & Pilot Lights

Name	Model	Ratings	Applicable Standards
MW series	MW1B MW1S	AC-12 110V AC, 10A AC-15 110V AC, 5A DC-12 24V DC, 8A DC-13 24V DC, 5A	GB14048.5

ø25mm TWS series Switches & Pilot Lights

Name	Model	Model	Ratings	Applicable Standards
TWS series	Pushlock turn reset	AVS, AVLS	AC-15 (250V AC, 3A) DC-13 (125V DC, 1.1A)	GB14048.5
	Pushbutton	ABS, ABGS, ABFS, UBQS AOS, AOGS, AOFs, UOQS UBQS, AJS, AYS		
	Illuminated pushbutton	ALS, ALGS, ALFS, ULQS AOLS, AOLGS, AOLF, UOLQS		
	Selector switch	ASS, ASS□L		
	Illuminated selector switch	ASLS		
	Key selector switch	ASS□K		
	Pilot light	APS, UPQS	Full voltage 6, 12, 24, 28V AC/DC Transformer 100V to 480V AC	

ø30mm series Switches & Pilot Lights

Name	Model	Ratings	Applicable Standards			
ø30mm series	Pushbutton (momentary) (maintained) (square twin)	ABN, ABN□F, ABN□G, UBQN AON, AON□F, AON□G UWQN1	AC-15 (250V 3A) (400V 2A) (600V 1.2A) DC-13 (125V 1.1A)	GB14048.5		
	(pushlock turn reset) (pushlock turn lock) (key) (mushroom pull) (mushroom push-pull) (mushroom push-pull return) (pin lock)	AVN AJN ABN5K ATN23 ATN21 ATN22 ABN8P				
	(square twin)	UWQN2 ABBN				
	Pilot light LED illuminated unit Illuminated pushbutton LED illuminated unit	APN, APNE UPQN, UPQNE ALN, ALNE AOLN, AOLNE ALGN, ALGNE AOLGN, AOLGNE ALFN, ALFNE AOLFN, AOLFNE AVLN, AVLNE AJLN				
	Illuminated selector switch	ASLN				
	Pilot light	APN, APNE				
	Incandescent illuminated unit	UPQN, UPQNE				
	Illuminated pushbutton Incandescent illuminated unit	ALN, ALNE AOLN, AOLNE ALN□G ALN□F AOLN□F AVLN, AVLNE, AJLN ULQN, UOLQN ULQN□B, UOLQN□B				
	Illuminated selector switch Incandescent illuminated unit	ASLN				
	Selector switch	ASN, ASN□L, ASN□K ASTN, ASTN□L, ASTN□K				
	Selector pushbutton	ABN, ABN□L				
	Cam switch	CS AC/UC			AC-15 (A600) DC-13 (P600)	GB14048.5
	Monolever switch	ARN			AC-15 (A600) DC-13 (P600)	GB14048.5

ø30mm series Diecast Zinc Switches & Pilot Lights

Name		Model	Ratings	Applicable Standards
ø30mm series (diecast)	Pushbutton (momentary) (maintained)	ABD, ABFD, ABGD AOD, AOFD, AOGD	AC-15 (250V 3A) (400V 2A) (600V 1.2A) DC-13(125V 1.1A)	GB14048.5
	(pushlock turn reset) (pushlock turn lock) (pull) (push-pull)	AVD AJD AZD AYD		
	Pilot light LED illuminated unit	APD/APDE		
	Illuminated pushbutton LED illuminated unit	ALD, ALDE AOLD, AOLDE ALFD, AOLF AVLD, AVLDE		
	Illuminated selector switch LED illuminated unit	ASLD		
	Pilot light Incandescent illuminated unit	APD, APDE		
	Illuminated pushbutton Incandescent illuminated unit	ALD, AOLD AVLD, AVLDE		
	Illuminated selector switch	ASLD		
	Selector switch	ASD, ASD□L, ASD□K		
	Selector pushbutton	ASBD, ASBD2L		

MA series Illuminated Pushbuttons/Pilot Lights/Pushbuttons

Name		Model	Ratings	Applicable Standards
MA series		MA2	(gold-clad contacts) 125V AC, 0.1A 30V DC, 0.1A (silver contacts) 125V AC, 3A 250V AC, 2A 30V DC, 2A 125V DC, 0.4A	GB14048.5
		MA3		
		MA8		

MC series Illuminated Pushbuttons & Pilot Lights

Name		Model	Ratings	Applicable Standards
MC series		MC2D	(gold-clad contacts) 125V AC, 0.1A/30V DC, 0.1A (silver contacts) 125V AC, 3A/250V AC, 2A 30V DC, 2A/125V DC, 0.4A	GB14048.5
		MC3D		

Approvals and Standards (CCC)

HS1E Interlock Switches

Name		Model	Ratings	Applicable Standard
HS1E	Plastic solenoid	HS1E	AC-15 (250V 3A)	GB14048.5
		HS1E-K	DC-13 (125V 0.9A)	
		HS1E-8	AC-15 (250Vac 0.75A)	GB14048.5
		HS1E-8K	DC-13 (30Vdc 2.3A)	

HS1L Interlock Switches

Name		Model	Ratings	Applicable Standard
HS1L	Plastic solenoid	HS1L	AC-15 (50Vac 3A) DC-13 (30Vdc 4A)	GB14048.5

HS1C Interlock Switches

Name		Model	Ratings	Applicable Standard
HS1C	Aluminum diecast solenoid	HS1C	AC-15 (250V 3A) DC-13 (125V 0.9A)	GB14048.5

HS5B Interlock Switches

Name		Model	Ratings	Applicable Standard
HS5B	Plastic miniature	HS5B	AC-15 (250V 3A)	GB14048.5

HS5D Interlock Switches

Name		Model	Ratings	Applicable Standard
HS5D	Plastic miniature	HS5D	AC-15 (250Vac 3A) DC-13 (30Vdc 4A)	GB14048.5

HS5E Interlock Switches

Name		Model	Ratings	Applicable Standard
HS5E	Plastic solenoid	HS5E	AC-15 (250V 0.5A) DC-13 (125V 0.22A) DC-13 (30Vdc 2.3A)	GB14048.5

HS5L Interlock Switches

Name		Model	Ratings	Applicable Standard
HS5L	Plastic solenoid	HS5L	AC-15 (250Vac 0.75A) DC-13 (30Vdc 2.3A)	GB14048.5

HS6B Interlock Switches

Name		Model	Ratings	Applicable Standard
HS6B	Plastic miniature	HS6B	AC-15 (240Vac 0.75A) DC-13 (30Vdc 2.3A)	GB14048.5

HS6E Interlock Switches

Name		Model	Ratings	Applicable Standard
HS6E	Plastic solenoid	HS6E	Door monitor circuit AC-15 (240Vac 0.75A) DC-13 (30Vdc 2.3A) Main/lock monitor circuit AC-15 (125Vac 1A) DC-13 (30Vdc 1A)	GB14048.5

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ø16mm X6 series Emergency Stop Switches

Name	Model	Ratings	Applicable Standard
X6 series	AB6E-3BV AB6E-4BV	AC-15 (250V 1.5A) AC-15 (250V 0.75A) DC-13 (30V 1A)	GB14048.5

ø16mm XA series Emergency Stop Switches

Name	Model	Ratings	Applicable Standard
XA series	XA1E-BV XA1E-LV	AC-15 (250V 1.5A) DC-13 (30V 1A)	GB14048.5

ø16mm XA series Emergency Stop Switches (Unibody)

Name	Model	Ratings	Applicable Standard
XA series (unibody)	XA1E-BV3U XA1E-BV4U	AC-15 (AC250V 1.5A) DC-13 (DC30V 1A)	GB14048.5

ø22mm XW series Emergency Stop Switches

Name	Model	Ratings	Applicable Standard
XW series	XW1E-BV XW1E-LV XW1E-TV	AC-15 (250V 1.5A) DC-13 (30V 1A)	GB14048.5

ø22mm HW series Emergency Stop Switches

Name	Model	Ratings	Applicable Standard
HW series Pushlock turn reset	HW1E-BV HW1E-LV (except 6V, 12V) HW1E-TV	AC-15 (250V 3A) DC-13 (125V 0.3A)	GB14048.5

ø30mm XN series Emergency Stop Switches

Name	Model	Ratings	Applicable Standard
XN series	XN1E-LV XN1E-TV XN5E-BV XN5E-LV XN5E-TV XN4E-BL XN4E-LL XN4E-TL	AC-15 (250V AC 1.5A) DC-13 (30V DC 1A)	GB14048.5

ø30mm HN series Emergency Stop Switches

Name	Model	Ratings	Applicable Standard
HN series	HN1E-BV HN1E-LV	AC-15 (250V 3A) DC-13 (125V 0.3A)	GB14048.5

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NRF series Circuit Protectors

Name	Model	Ratings	Applicable Standard
NRF series	NRF110 NRF111 NRF210 NRF211	Rated voltage: 250V AC/32V DC Rated current: 0.3, 0.5, 1, 2, 3, 5, 8, 10, 15A	GB17701

NH1 series Circuit Protectors

Name	Model	Ratings	Applicable Standard
NH1 series	NH1S NH1Y NH1L NY1V	Rated voltage: 250V AC/65V DC Rated current: 0.5, 0.75, 1, 2, 3, 5, 7.5, 10, 15, 25, 30A	GB17701

NRL series Circuit Protectors

Name	Model	Ratings	Applicable Standard
NRL series	NRLR NRLY NRLK NRLT NRLP	Rated voltage: 250V AC/50V DC Rated current: 0.1, 0.5, 1, 2, 3, 4, 5, 7.5, 10, 12.5, 15, 20A	GB17701

NRBM series Circuit Protectors

Name	Model	Ratings	Applicable Standard
NRBM series	NRBM	Rated voltage: 250V AC/65V DC Rated current: 1, 2, 3, 5, 7.5, 10, 15, 20, 25, 30, 40, 50A	GB17701

NRA series Circuit Protectors

Name	Model	Ratings	Applicable Standard
NRA series	NRAS NRAN NRAK NRAR	Rated voltage: 250V AC/65V DC Rated current: 0.3, 0.5, 0.75, 1, 2, 3, 5, 7.5, 10, 15, 20, 25, 30A	GB17701

NC1V series Circuit Protectors

Name	Model	Ratings	Applicable Standard
NC1V series	NC1V	Rated voltage: 250V AC/65V DC/125V DC Rated current: 0.1, 0.3, 0.5, 1, 2, 3, 5, 7, 10, 15, 20, 25, 30A	GB17701

Grip Style Three-position Enabling Switches

Name	Model	Ratings	Applicable Standard
HE1G-L	HE1G-L	3-position switch AC-15: 250Vac, 0.5A DC-13: 30Vdc, 0.7A Monitor switch AC-15: 250Vac, 0.75A DC-13: 30Vdc, 2.3A	GB14048.5
HE2G	HE2G HE2G-X	AC-15: 250Vac, 0.5A/0.75A/1.5A DC-13: 30Vdc, 0.7A/1A/2.3A AC-12: 125Vac, 0.5A DC-12: 30Vdc, 1A	GB14048.5

Enabling Switches

Name	Model	Ratings	Applicable Standard
HE2B	HE2B	3-position switch AC-12: 250Vac, 0.5A DC-12: 30Vdc, 1A DC-13: 30Vdc, 0.7A Auxiliary switch AC-15: 250Vac, 0.75A DC-13: 125Vdc, 0.22A DC-13: 30Vdc, 2.3A	GB14048.5
HE3B	HE3B	AC-12: 125Vac, 1A DC-12: 125Vdc, 0.2A DC-12: 30Vdc, 1A DC-13: 30Vdc, 0.7A	GB14048.5
HE5B	HE5B	AC-12: 125Vac, 0.5A DC-12: 30Vdc, 1A DC-13: 30Vdc, 0.7A	GB14048.5
HE6B	HE6B	3-position switch AC-12: 125Vac, 0.5A DC-12: 30Vdc, 1A DC-13: 30Vdc, 0.7A Auxiliary switch AC-15: 250Vac, 0.75A DC-13: 125Vdc, 0.22A DC-13: 30Vdc, 2.3A	GB14048.5