



Pneuma Engineering Co.,Ltd

บริษัท นิวมา เอนจิเนียริง จำกัด



- Autonics, OMRON type Proximity switch series
- AC contactor
- SSR Series Solid state relay
- Limit Switch
- Thermocouple
- Terminal Blocks
- Micro Switch
- FootSwitch
- Axial Fan
- The aggregate-organ output type
- Small relay series

Electrical

S-N Magnetic Contactor(S-N Series)

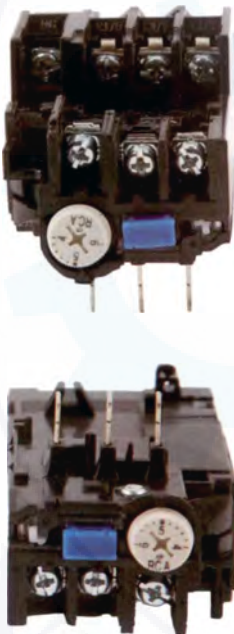
S-N



Model	Rated Operating Current(A)(AC3)		Max. Motor Capacity 3 Phase(AC3)KW		Thermal Current (AC1)	Standard Auxiliary Contact	
	220-240V	380-440V	220-240V	380-440V		NO	NC
S-N10	11	9	2.5(3.3)	4(5.5)	20	1NO	-
S-N11	13	12	3.5(4.5)	5.5(7.5)	20	1NO	-
S-N12	13	12	3.5(4.5)	5.5(7.5)	20	1NO	1NC
S-N20	22	22	5.5(7.5)	11(15)	32	1NO	1NC
S-N21	22	22	5.5(7.5)	11(15)	32	2NO	2NC
S-N25	30	30	7.5(10)	15(20)	50	2NO	2NC
S-N35	40	40	11(15)	18.5(25)	60	2NO	2NC
S-N50	55	55	15(20)	22(30)	80	2NO	2NC
S-N65	65	65	18.5(25)	30(40)	100	2NO	2NC

TH-N Overload Relay (TH-N Series)

TH-N



Series	Model	Description
TH-N12	TH-N12-0.9A	0.7-1.1(0.9A)
	TH-N12-1.2A	0.9-1.5(1.2A)
	TH-N12-1.7A	1.4-2(1.7A)
	TH-N12-2.1A	1.6-2.6(2.1A)
	TH-N12-3.5A	2.8-4.4(3.5A)
	TH-N12-5A	4-6(5A)
	TH-N12-6.5A	5.2-8(6.5A)
	TH-N12-9A	7-11(9A)
TH-N20	TH-N12-11A	9-13(11A)
	TH-N20-5A	4-6(5A)
	TH-N20-6.5A	5.2-8(6.5A)
	TH-N20-9A	7-11(9A)
	TH-N20-11A	9-13(11A)
	TH-N20-15A	12-18(15A)
	TH-N20-19A	16-22(19A)
TH-N20-30A	24-34(30A)	

NO Fuse Breaker NF-series(CW)

NF



Model	Rated Operating Current(A)	Rated Breaking Capacity(KA)	
		230V	400V
NF30-CW 2P	5, 10, 15, 20, 30	2.5	1.5
NF30-CW 3P	5, 10, 15, 20, 30	2.5	1.5
NF63-CW 2P	40, 50, 63	7.5	5
NF63-CW 3P	40, 50, 63	7.5	5
NF125-CW 2P	80, 100, 125	30	10
NF125-CW 3P	80, 100, 125	30	10
NF250-CW 3P	150, 175, 200, 250	50	18
NF400-CW 3P	300, 350, 400	85	50
NF630-CW 3P	500, 600		

Electrical

LC1-D Magnetic Contactors

LC1-D



Item no	Ac1 Duty Maxa	AC3 DUYT 3 Phase Motor Rating						
		A	220V		380V		440V	
			KW	HP	KW	HP	KW	HP
LC1-D09	25A	9A	2.2	3	4	5.5	4	5.5
LC1-D12	25A	12A	3	4	5.5	7.5	5.5	7.5
LC1-D18	32A	18A	4	5.5	7.5	10	9	12
LC1-D25	40A	25A	5.5	7.5	11	15	11	15
LC1-D32	50A	32A	7.5	10	15	20	15	20
LC1-D40	60A	40A	11	15	18.5	25	22	30
LC1-D50	80A	50A	15	20	22	30	25	35
LC1-D65	90A	65A	18.5	25	30	40	37	50
LC1-D80	125A	80A	22	30	37	50	45	60
LC1-D95	130A	95A	25	35	45	60	45	60

CJX2 Srive AC contactor

CJX2



Contactor model	Main circuit characteristics							
	Extreme quantity	Rated insulation voltage (Ui)	Rated working voltage (Ue)	Agreed heating current(Ith)	Rated working current		Rated working power	
					AC-3, 380/400V	AC-4, 380/400V	AC-3, 380/400V	AC-4, 380/400V
CJX2-0610	3	690	350/400 660/690	16	6	2.6	2.2	1.1
CJX2-0910				20	9	3.5	4	1.5
CJX2-1210				20	12	5	5.5	2.2
CJX2-1810				25	18	7.7	7.5	3.3
CJX2-2510				32	25	8.5	11	4
CJX2-3210				40	32	12	15	5.4
CJX2-4011				50	40	18.5	18.5	7.5
CJX2-5011				60	50	24	22	11
CJX2-6511				80	65	28	30	15
CJX2-8011				110	80	37	37	18.5
CJX2-9511				110	95	44	45	22

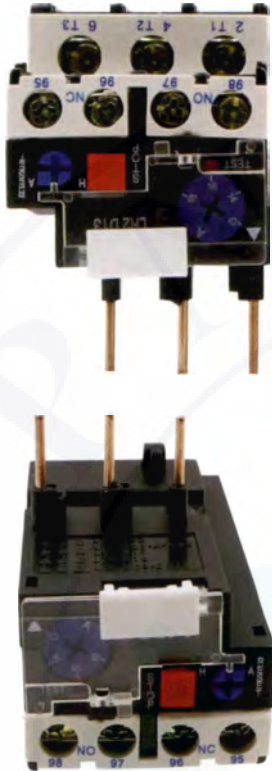
C Ciriut Breaker



Description	1P	2P	3P
DZ47-63 10A	•		
DZ47-63 16A	•	•	
DZ47-63 20A	•	•	
DZ47-63 32A	•	•	•
DZ47-63 40A		•	•
DZ47-63 50A		•	•
DZ47-63 63A		•	•
DZ47LE-63 40A		•	
DZ47LE-63 50A		•	
DZ47LE-63 63A		•	

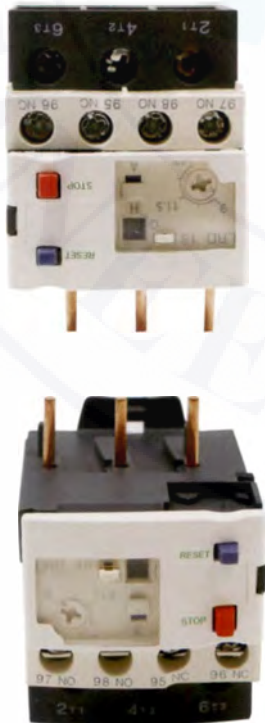
Electrical

LR2-D Thermal Relay LR2-D



Model	Setting Range (A)	Contactors insert
LR2-D1303C	0.25-0.4	CJX2-09-CJX2-25
LR2-D1304C	0.4-0.63	CJX2-09-CJX2-25
LR2-D1305C	0.63-1	CJX2-09-CJX2-25
LR2-D1306C	1-1.6	CJX2-09-CJX2-25
LR2-D1307C	1.6-2.5	CJX2-09-CJX2-25
LR2-D1308C	2.5-4	CJX2-09-CJX2-25
LR2-D1310C	4-6	CJX2-09-CJX2-25
LR2-D1312C	5.5-8	CJX2-09-CJX2-25
LR2-D1314C	7-10	CJX2-09-CJX2-25
LR2-D1316C	9-13	CJX2-09-CJX2-25
LR2-D1321C	12-18	CJX2-09-CJX2-25
LR2-D1322C	17-25	CJX2-32
LR2-D2353C	23-32	CJX2-25-CJX2-32
LR2-D2355C	30-40	CJX2-25-CJX2-32
LR2-D3322C	17-25	CJX2-40-CJX2-95
LR2-D3353C	23-32	CJX2-40-CJX2-95
LR2-D3355C	30-40	CJX2-40-CJX2-95
LR2-D3357C	37-50	CJX2-40-CJX2-95
LR2-D3359C	48-65	CJX2-40-CJX2-95
LR2-D3361C	55-70	CJX2-40-CJX2-95
LR2-D3363C	63-80	CJX2-40-CJX2-95
LR2-D3365C	80-93	CJX2-95

LRD Thermal Relay LRD



Model	Setting Range (A)	Contactors insert
LRD03	0.25-0.4	LC1-D09-LC1-D35
LRD04	0.4-0.63	LC1-D09-LC1-D35
LRD05	0.63-1	LC1-D09-LC1-D35
LRD06	1-1.7	LC1-D09-LC1-D35
LRD07	1.6-2.5	LC1-D09-LC1-D35
LRD08	2.5-4	LC1-D09-LC1-D35
LRD10	4-6	LC1-D09-LC1-D35
LRD12	5.5-8	LC1-D09-LC1-D35
LRD14	7-10	LC1-D09-LC1-D35
LRD16	9-13	LC1-D12-LC1-D35
LRD21	12-18	LC1-D12-LC1-D35
LRD22	16-24	LC1-D25-LC1-D35
LRD32	23-32	LC1-D25-LC1-D35
LRD35	30-38	LC1-D25-LC1-D35
LRD3322	17-25	LC1-D40-LC1-D95
LRD3353	23-32	LC1-D40-LC1-D95
LRD3355	30-40	LC1-D40-LC1-D95
LRD3357	37-50	LC1-D40-LC1-D95
LRD3359	48-65	LC1-D40-LC1-D95
LRD3361	55-70	LC1-D40-LC1-D95
LRD3363	63-80	LC1-D40-LC1-D95
LRD3365	80-93	LC1-D95

Electrical

XB2 Button Series

	Specifications	Model	Product Model Color Description		Specifications	Model	Product Model Color Description
Auto-reduction type of flat head BA 	1NO	XB2-BA11	XB2-BA31 Green XB2-BA51 Yellow XB2-BA42 Red	Emergency stop BS 	1NO	XB2-BS542	
	1NO+1NC	XB2-BA55	XB2-BA11 White		1NO+1NC	XB2-BS545	
Auto-reduction type of mushroom head BC 	1NO	XB2-BC21	XB2-BC31 Green XB2-BC42 Red XB2-BC51 Yellow	Emergency stop BS (Big head) 	1NO	XB2-BS642	
	1NO+1NC	XB2-BC45	XB2-BC21 Black XB2-BC11 White		1NO+1NC	XB2-BS646	
Auto-reduction type of mushroom head BR (Big head) 	1NO	XB2-BR21	XB2-BR31 Green XB2-BR42 Red XB2-BR51 Yellow	Flat-headed with lamp BW 	1NO	XB2-BW3361	XB2-BW3462 Red
	1NO+1NC	XB2-BR45	XB2-BR21 Black XB2-BR11 White				XB2-BW3161 White
Auto-reduction type of convex head BL 	1NO	XB2-BL11	XB2-BL31 Green XB2-BL42 Red XB2-BL51 Yellow	Key knob BG Second gear Third gear 	1NO	XB2-BG21	
	1NO+1NC	XB2-BL55	XB2-BL21 Black XB2-BL11 White				
Selector switch Short handle type BD Second gear Third gear 	1NO	XB2-BD21	XB2-BD41 Second gear self recovery	Indicator light 		AD16-22DS	
	1NO+1NC	XB2-BD35	XB2-BD55 Second gear self recovery				
BJ 	1NO+1NC	XB2-BJ35	XB2-BJ55 Long handle self recovery	Buzzer 		AD16-22DS/MS	

Electrical

The aggregate-organ output type

The aggregate-organ output type

Electrical
The aggregate-organ output type



Model	DC voltage	Rated current	Rated power	Ripple&noise	DC voltage ADJ.range	Voltage range	AC current	
S-15-12	12V	1.3A	15.6W	50mvp-p	±10%	85~132VAC / 170~264VAC selected by switch 47~63Hz; 240~370VDC	0.5A/115VAC	
S-15-24	24V	0.7A	16.8W	100mvp-p	±10%		0.25A/230VAC	
S-25-12	12V	2.1A	25.2W	100mvp-p	±10%		0.6A/115V	
S-25-24	24V	1.1A	26.4W	100mvp-p	±10%		0.35A/230V	
S-35-12	12V	3A	36W	120mvp-p	±10%		0.8A/115VAC	
S-35-24	24V	1.5A	36W	120mvp-p	±10%		0.45A/230VAC	
S-50-12	12V	4.2A	50.4W	120mvp-p	±10%		1.3A/115VAC	
S-50-24	24V	2.1A	50.4W	120mvp-p	±10%		0.65A/230VAC	
S-60-12	12V	5A	60W	120mvp-p	±10%		1.6A/115V	
S-60-24	24V	2.5A	60W	150mvp-p	±10%		0.8A/230V	
S-75-12	12V	6A	75.6W	100mvp-p	±10%		1.6A/115V	
S-75-24	24V	3.2A	76.8W	100mvp-p	±10%		0.8A/230V	
S-100-12	12V	8.5A	102W	100mvp-p	±10%		85~132VAC / 180~264VAC selected by switch 47~63Hz; 255~370VDC	2.4A/115V
S-100-24	24V	4.5A	108W	100mvp-p	±10%			1.2A/230V
S-120-12	12V	10A	120W	100mvp-p	±10%			2.6A/115V
S-120-24	24V	5A	120W	100mvp-p	±10%			1.3A/230V
S-145-12	12V	12A	144W	150mvp-p	±10%	3.2A/115VAC		
S-145-24	24V	6A	144W	150mvp-p	±10%	1.6A/230VAC		
S-200-12	12V	16.5A	198W	100mvp-p	±10%	85~132VAC / 176~264VAC selected by switch 47~63Hz; 248~370VDC		4.2A/115V
S-200-24	24V	8.5A	204W	100mvp-p	±10%			2.2A/230V
S-250-12	12V	20A	240W	120mvp-p	±10%	88~132VAC / 176~264VAC selected by switch 47~63Hz; 248~370VDC	6.5A/115VAC	
S-250-24	24V	10A	240W	150mvp-p	±10%		4.0A/230VAC	
S-350-12	12V	29A	348W	150mvp-p	±10%	90~132VAC / 180~264VAC selected by switch 47~63Hz; 254~370VDC	6.5A/115VAC	
S-350-24	24V	14.6A	350.4W	150mvp-p	±10%		4.0A/230VAC	

Electrical

Two pairs of output type



Model:

RD-35A
RD-35B
RD-3513
RD-50A
RD-50B



Model	RD-35A		RD-35B		RD-3513		
Output	Output channel	CH1	CH2	CH1	CH2	CH1	CH2
	DC voltage	5V	12V	5V	24V	13.5V	-13.5V
	Rated current	4A	1A	2.2A	1A	1.3A	1.3A
	Current range	0.3~4A	0.2~1A	0.3~4A	0.2~1.3A	0.3~2A	0.2~1.5A
	Rated power	32W		35W		35.1W	
	Voltage adjustment range	CH1:4.75~5.5V		CH1:4.75~5.5V		CH1:11.5~15.5V	
	Start up and rise time	500ms,30ms/230VAC		1200ms,30ms/115VAC(full load)			
	Holding time (Typ.)	80ms/230VAC		16ms/115VAC(full load)			
Input	Voltage range	88~264VAC or 125~373VDC(Withstand 300VAC surge input for 5S without damage)					
	frequency range	47~63Hz					
	Efficiency (typ.)	79%		82%		80%	
	AC current (typ.)	0.8A/115VAC		0.55A/230VAC			
	Surge current (typ.)	Cold start: 36A / 230VAC					
Protect	Overload	110% ~ 150% of rated output Protection mode: hiccup mode, which can be automatically recovered after removal of abnormal load conditions					
	Overvoltage	CH1:5.75~6.75V				CH1:16.87~19.57V Protection mode: hiccup mode, it can recover automatically after the abnormal voltage condition is removed	
Environmental Science	Working temperature	-25~+70°C(please refer to "derating curve")					
	Working humidity	20 ~ 90% RH, non condensing					
	Storage temperature and humidity	-40~+85°C, 10~95%RH					
	Temperature coefficient	±0.03%/°C(0~50°C(CH1))					
	Vibration resistance	10 ~ 500Hz, 5G 10 min/cycle, X,Y,Z axis 60 min each					

Model	RD-50A		RD-50B		
Output	Output channel	CH1	CH2	CH1	CH2
	DC voltage	5V	12V	5V	24V
	Rated current	6A	2A	4A	1.4A
	Current range	0.3~6A	0.3~3A	0.3~6A	0.2~2A
	Rated power	54W		53.6W	
	Voltage adjustment range	CH1:4.75~5.5V		CH1:4.75~5.5V	
	Start up and rise time	500ms,20ms/230VAC		1200ms,30ms/115VAC(full load)	
	Holding time (Typ.)	60ms/230VAC		12ms/115VAC(full load)	
Input	Voltage range	88~264VAC or 125~373VDC(Withstand 300VAC surge input for 5S without damage)			
	frequency range	47~63Hz			
	Efficiency (typ.)	79%		80%	
	AC current (typ.)	1.3A/115VAC		0.8A/230VAC	
	Surge current (typ.)	Cold start: 33A / 230VAC			
Protect	Overload	110% ~ 150% of rated output Protection mode: hiccup mode, which can be automatically recovered after removal of abnormal load conditions			
	Overvoltage	CH1:5.75~6.75V Protection mode: hiccup mode, it can recover automatically after the abnormal voltage condition is removed			
Environmental Science	Working temperature	-25~+70°C(please refer to "derating curve")			
	Working humidity	20 ~ 90% RH, non condensing			
	Storage temperature and humidity	-40~+85°C, 10~95%RH			
	Temperature coefficient	±0.03%/°C(0~50°C(+5V))			
	Vibration resistance	10 ~ 500Hz, 5G 10 min/cycle, X,Y,Z axis 60 min each			

Electrical

The pairs of output type

Electrical
The pairs of
output type



Model:

RD-65A
RD-65B
RD-85A
RD-85B



Model	RD-65A		RD-65B		
Output	Output channel	CH1	CH2	CH1	CH2
	DC voltage	5V	12V	5V	24V
	Rated current	6A	3A	4A	2A
	Current range	0.3~8A	0.2~4A	0.3~8A	0.2~3A
	Rated power	66W		68W	
	Voltage adjustment range	CH1:4.75~5.5V		CH1:4.75~5.5V	
	Start up and rise time	500ms,20ms/230VAC 1200ms,30ms/115VAC(full load)			
	Holding time (Typ.)	60ms/230VAC 14ms/115VAC(full load)			
Input	Voltage range	88~264VAC or 125~373VDC(Withstand 300VAC surge input for 5S without damage)			
	frequency range	47~63Hz			
	Efficiency (typ.)	79%		78%	
	AC current (typ.)	2A/115VAC		1.2A/230VAC	
Protect	Surge current (typ.)	Cold start: 40A / 230VAC			
	Overload	110% ~ 150% of rated output Protection mode: hiccup mode, which can be automatically recovered after removal of abnormal load conditions			
	Overvoltage	CH1:5.75~6.75V Protection mode: hiccup mode, it can recover automatically after the abnormal voltage condition is removed			
Environmental Science	Working temperature	-25~+70°C(please refer to "derating curve")			
	Working humidity	20 ~ 90% RH, non condensing			
	Storage temperature and humidity	-40~+85°C, 10~95%RH			
	Temperature coefficient	±0.03%/°C(0~50°C(+5V))			
	Vibration resistance	10 ~ 500Hz, 5G 10 min/cycle, X,Y,Z axis 60 min each			

Model	RD-85A		RD-85B		
Output	Output channel	CH1	CH2	CH1	CH2
	DC voltage	5V	12V	5V	24V
	Rated current	8A	4A	8A	2A
	Current range	2~10A	0.3~5A	2~10A	0.3~2.5A
	Rated power	88W		88W	
	Voltage adjustment range	CH1:4.75~5.5V		CH1:4.75~5.5V	
	Start up and rise time	500ms,20ms/230VAC 1200ms,30ms/115VAC(full load)			
	Holding time (Typ.)	100ms/230VAC 14ms/115VAC(full load)			
Input	Voltage range	88~264VAC or 125~373VDC(Withstand 300VAC surge input for 5S without damage)			
	frequency range	47~63Hz			
	Efficiency (typ.)	78%		80%	
	AC current (typ.)	2.5A/115VAC		1.5A/230VAC	
Protect	Surge current (typ.)	Cold start: 40A / 230VAC			
	Overload	110% ~ 150% of rated output Protection mode: hiccup mode, which can be automatically recovered after removal of abnormal load conditions			
	Overvoltage	CH1:5.75~6.75V Protection mode: hiccup mode, it can recover automatically after the abnormal voltage condition is removed			
Environmental Science	Working temperature	-25~+70°C(please refer to "derating curve")			
	Working humidity	20 ~ 90% RH, non condensing			
	Storage temperature and humidity	-40~+85°C, 10~95%RH			
	Temperature coefficient	±0.03%/°C(0~50°C(+5V))			
	Vibration resistance	10 ~ 500Hz, 5G 10 min/cycle, X,Y,Z axis 60 min each			

Electrical

The pairs of output type

Electrical
The pairs of
output type



Model:

- RD-125A
- RD-125B
- RD-125-1224
- RD-125-1248
- RD-125-2448
- RD-125-2412
- RD-125-4812
- RD-125-4824



Model	RD-125A		RD-125B		
Output	Output channel	CH1	CH2	CH1	CH2
	DC voltage	5V	12V	5V	24V
	Rated current	7.7A	7.7A	4.6A	4.6A
	Current range	2~15A	0.5~10A	2~10A	0.4~5A
	Rated power	130.9W		133.4W	
	Voltage adjustment range	CH1:4.75~5.5V		CH1:4.75~5.5V	
	Start up and rise time	500ms,20ms/230VAC 1200ms,30ms/115VAC(full load)			
	Holding time (Typ.)	25ms/230VAC 30ms/115VAC(full load)			
Input	Voltage range	88~132VAC/176~264VDC(switch switching) or 248~373VDC (Withstand 300VAC surge input for 5S without damage)			
	frequency range	47~63Hz			
	Efficiency (typ.)	82%		85%	
	AC current (typ.)	3A/115VAC		2A/230VAC	
	Surge current (typ.)	Cold start: 40A / 230VAC			
Protect	Overload	110% ~ 150% of rated output Protection mode: hiccup mode, which can be automatically recovered after removal of abnormal load conditions			
	Overvoltage	CH1:5.75~6.75V Protection mode: hiccup mode, it can recover automatically after the abnormal voltage condition is removed			
Environmental Science	Working temperature	-25~+70°C(please refer to "derating curve")			
	Working humidity	20 ~ 90% RH, non condensing			
	Storage temperature and humidity	-40~+85°C, 10~95%RH			
	Temperature coefficient	±0.03%/°C(0~50°C(CH1))			
	Vibration resistance	10 ~ 500Hz, 2G 10 min/cycle, X,Y,Z axis 60 min each			

Model	RD-125-1224		RD-125-1248		RD-125-2448		
Output	Output channel	CH1	CH2	CH1	CH2	CH1	CH2
	DC voltage	12V	24V	12V	48V	24V	48V
	Rated current	3.7A	3.7A	2.3A	2.3A	2A	2A
	Current range	1~7A	0.4~5A	1~7A	0.2~2.5A	0.5~4A	0.2~2.5A
	Rated power	133.2W		138W		144W	
	Voltage adjustment range	CH1:11.4~13.2V		CH1:11.4~13.2V		CH1:22.8~26.4V	
	Start up and rise time	500ms,20ms/230VAC 1200ms,30ms/115VAC(full load)					
	Holding time (Typ.)	25ms/230VAC 30ms/115VAC(full load)					
Input	Voltage range	88~132VAC/176~264VDC(switch switching) or 248~373VDC (Withstand 300VAC surge input for 5S without damage)					
	frequency range	47~63Hz					
	Efficiency (typ.)	85%		86%		86%	
	AC current (typ.)	3A/115VAC		2A/230VAC			
	Surge current (typ.)	Cold start: 40A / 230VAC					
Protect	Overload	110% ~ 150% of rated output Protection mode: hiccup mode, which can be automatically recovered after removal of abnormal load conditions					
	Overvoltage	CH1:13.8~16.2V		CH1:13.8~16.2V		CH1:27.6~32.4V Protection mode: hiccup mode, it can recover automatically after the abnormal voltage condition is removed	
Environmental Science	Working temperature	-25~+70°C(please refer to "derating curve")					
	Working humidity	20 ~ 90% RH, non condensing					
	Storage temperature and humidity	-40~+85°C, 10~95%RH					
	Temperature coefficient	±0.03%/°C(0~50°C(CH1))					
	Vibration resistance	10 ~ 500Hz, 2G 10 min/cycle, X,Y,Z axis 60 min each					

75~150W Slim and Economical

75~150W Slim and Economical



Model:
EDR-75-12
EDR-75-24
EDR-75-48
EDR-120-12
EDR-120-24
EDR-120-48
EDR-150-24

Features

- Universal AC input/Full range
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment)listed
- EN61000-6-2(EN50082-2)industrial immunity level
- Low cost
- 2 years warranty

General Specification

Model No.	EDR-75	EDR-120	EDR-150
AC input voltage range	90~264VAC; 127~370VDC		
AC inrush current(max.)	Cold start, 35A at 230VAC		
DC adjustment range	12: 12~14V, 24V: 24~28V, 48V: 48~55V		
Overload protection	Range	105%~130%	
	Type	Constant current limiting, auto-recovery	
Over voltage protection	Range	12V: 14~17V, 24V: 29~33V, 48V: 56~65V	24V: 29~33V
	Type	Shut down o/p voltage, re-power on to recover	
Over temperature protection	Shut down o/p voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature	-20~+60(refer to output derating curve)		
Safety standards	UL508, TUV EN62368-1, EAC TP 004, BSMI CNS14336-1 approved		
EMC standards	EN55032 classA, EN61000-3-2(125W for EDR-150), 3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2), EAC TP TC 020, CNS 13438		
Connection(screw DIN terminal)	I/P: 3 poles, O/P: 4 poles		

75W

EDR-75

Model No.	Output	Tol.	R&N	Effi.
EDR-75-12	12V, 0~6.3A	±2.0%	80mV	85.5%
EDR-75-24	24V, 0~3.2A	±1.0%	120mV	87.5%
EDR-75-48	48V, 0~1.6A	±1.0%	150mV	88.5%

150W

EDR-150

Model No.	Output (230VAC/115VAC)	Tol.	R&N	Effi.
EDR-150-24	24V, 0~6.5A	±1.0%	150mV	87%
	24V, 0~5.2A			

120W

EDR-120

Model No.	Output	Tol.	R&N	Effi.
EDR-120-12	12V, 0~10A	±2.0%	100mV	85.0%
EDR-120-24	24V, 0~5A	±1.0%	120mV	87.5%
EDR-120-48	48V, 0~2.5A	±1.0%	150mV	88.5%

EDR & NDR

Difference Series	EMI	Working Temp.	Warranty
EDR	ClassA	-20~+60	2 years
NDR	ClassB	-20~+70	3 years

Electrical

Single group output rail type industrial power supply



- | | | | | | | |
|----------|----------|---------|----------|----------|-----------|-----------|
| DR-15-5 | DR-30-5 | DR-4505 | DR-60-5 | DR-75-12 | DR-100-12 | DR-120-12 |
| DR-15-12 | DR-30-12 | DR-4512 | DR-60-12 | DR-75-24 | DR-100-15 | DR-120-24 |
| DR-15-15 | DR-30-15 | DR-4515 | DR-60-15 | DR-75-48 | DR-100-24 | DR-120-48 |
| DR-15-24 | DR-30-24 | DR-4524 | DR-60-24 | | | |

Single group output rail type industrial power supply



- | | | |
|------------|------------|-------------|
| DRP-240-24 | DRP-480-24 | DRP-480S-24 |
| DRP-240-48 | DRP-480-48 | DRP-480S-48 |

Mini The aggregate-organ output type



- MS-15-12
- MS-15-24
- MS-35-12
- MS-35-24
- MS-50-12
- MS-50-24
- MS-100-12
- MS-100-24

Mitsubishi Electric PLC



- | | | | |
|----------------|----------------|----------------|-----------------|
| FX3U-16MR/DS | FX3U-32MR/DS | FX3U-48MR/DS | FX3U-64MR/DS |
| FX3U-16MR/ES-A | FX3U-32MR/ES-A | FX3U-48MR/ES-A | FX3U-64 MR/ES-A |

Electrical

Small relay series



Voltage
6V DC
12V DC
24V DC
12V AC
24V AC
110V AC
220V AC

MY2N



PYF-08A



LY4N

Voltage
12V DC
24V DC
48V DC
12V AC
24V AC
110V AC
220V AC



PTF-14A



Voltage
12V DC
24V DC
12V AC
24V AC
110V AC
220V AC

MY4N



PYF-14A



**MK2P-1
MK2PN(LED)**

Voltage
12V DC
24V DC
48V DC
12V AC
24V AC
110V AC
220V AC



PF-083A



Voltage
6V DC
12V DC
24V DC
48V DC
12V AC
24V AC
110V AC
220V AC

LY2N



PTF-08A



**MK3P-1
MK3PN(LED)**

Voltage
12V DC
24V DC
12V AC
24V AC
110V AC
220V AC



PF-113A

Thermocouple



TC-101

Name	Screw Type
Type	TC-101
Thread	M6,M8,1/4,5/16...
Graduation	K
Specification	1M,2M,3M
Weasuring Range	0-800



TC-102

Name	Push Lock Type
Type	TC-102
Thread	M12...
Graduation	K
Specification	1M,2M,3M
Weasuring Range	0-800

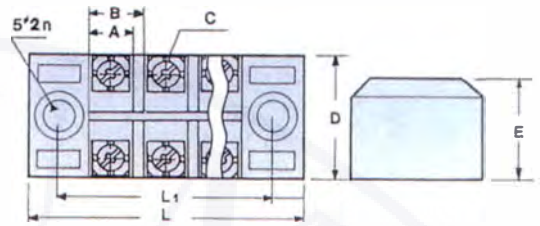


TC-103

Name	Inserting Type
Type	TC-103
Thread	M8×1.25/5×100...
Graduation	K
Specification	1M,2M,3M
Weasuring Range	0-800

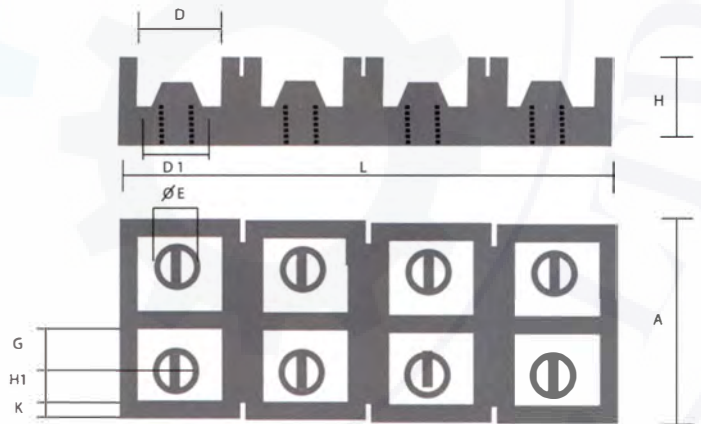
Electrical

Terminal Blocks



Electrical

Model	RATINGS	Number Of Poles	Dimensions(mm)						
			L	L ₁	A	B	C	D	E
TB-1503	600V 15A	3	46.5	36.5	7	9	M3	22	17.5
TB-1504		4	55.5	45.5	7	9	M3	22	17.5
TB-1506		6	73.5	63.5	7	9	M3	22	17.5
TB-1512		12	128.5	118	7	9	M3	22	17.5
TB-2503	600V 25A	3	50.5	40	8	10.5	M4	28	19
TB-2504		4	61.5	51	8	10.5	M4	28	19
TB-2506		6	82.5	72	8	10.5	M4	28	19
TB-2512		12	147	136	8	10.5	M4	28	19



Model	L	H	E	D	A	K	H1	G	D1
TB-603 60A 3P	86.5	32.5	6	17	43	2	6	10	16
TB-604 60A 4P	115	32.5	6	17	43	2	6	10	16
TB-1003 100A 3P	106	37.5	6	22.5	55	4	8	12	20
TB-1004 100A 4P	139.5	37.5	6	22.5	55	4	8	12	20
TB-1503 150A 3P	115	40	8	25.5	66.5	5	12	13	22
TB-1504 150A 4P	153.5	40	8	25.5	66.5	5	12	13	22
TB-2003 200A 3P	133	45	8	28.5	72	5.5	13.5	14	24
TB-2004 200A 4P	175	45	8	28.5	72	5.5	13.5	14	24
TB-3003 300A 3P	166	58	10	36.5	90	6.5	13	21	26
TB-4003 400A 3P	220	58	10	36.5	90	6.5	13	21	26
TB-3004 300A 4P	166	52	10	36.5	90	6.5	13	21	34
TB-4004 400A 4P	220	52	10	36.5	90	6.5	13	21	34

Axial Fan

AC Axial Fan (BL: Ball bearing)



Model	Voltage	Size	
GH8025BL	AC220V	80×25	3"
GH9225BL	AC220V	92×25	3.5"
GH11025BL	AC220V	110×25	4"
GH12025BL	AC220V	120×25	4.5"
GH12038BL	AC220V	120×38	4.8"
GH13538BL	AC220V	135×38	5"
GH15050BL	AC220V	150×50	6"
GH17250BL	AC220V	172×150×51	6"
GH18060BL	AC220V	180×60	7"
GH20060BL	AC220V	200×60	8"
GH25090BL	AC220V	φ 250×90	10"
GH22060BL	AC220V	φ 220×60	8"

DC Axial Fan (BL: Ball bearing)



Model	Voltage	Size	
GH8025BL	DC12V DC24V	80×25	3"
GH9225BL	DC12V DC24V	92×25	3.5"
GH12038BL	DC12V DC24V	120×38	4.8"
GH14025BL	DC24V	140×24	5.5"

AC Axial Fan (SL: Oil bearing bearing)

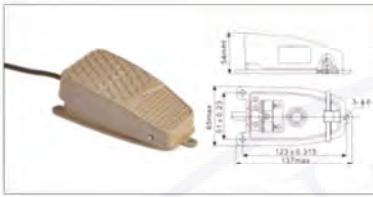


Model	Voltage	Size	
GH8025SL	AC220V	80×25	3"
GH9225SL	AC220V	92×25	3.5"
GH11025SL	AC220V	110×25	4"
GH12025SL	AC220V	120×25	4.5"
GH12038SL	AC220V	120×38	4.8"
GH13538SL	AC220V	135×38	5"
GH15050SL	AC220V	150×50	6"
GH17250SL	AC220V	172×150×51	6"

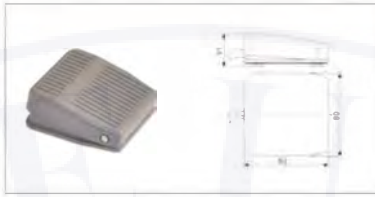
Foot Switch

Foot Switch

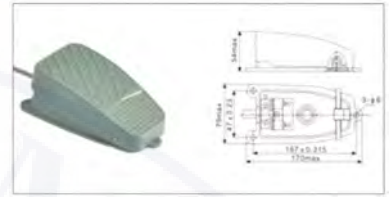
Foot Switch



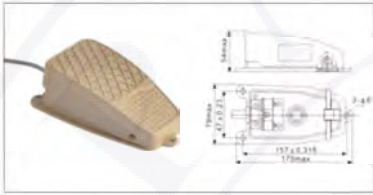
FS-2



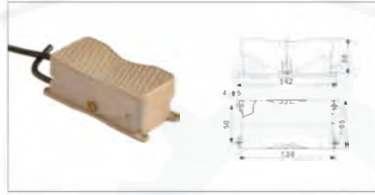
FS-201



FS-105



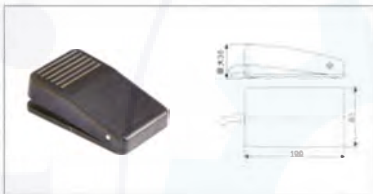
FS-3



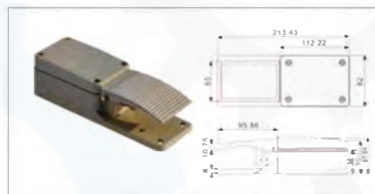
FS-18



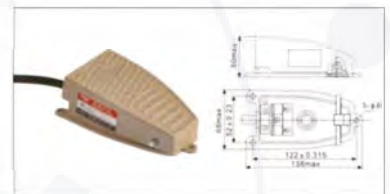
FS-10



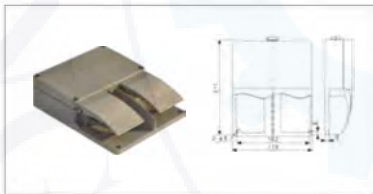
FS-1



FS-17



EKW-5A-B



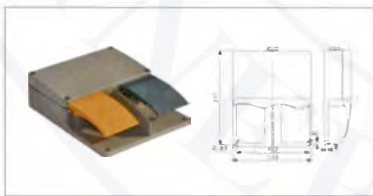
YDTI-15



YDT1-9



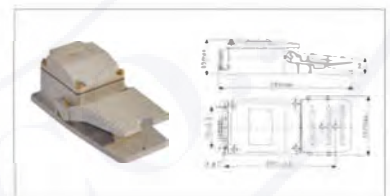
YDTI-16H



YDTI-15S



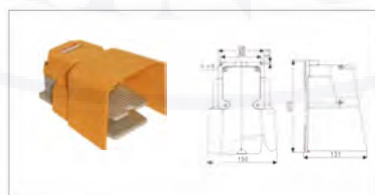
YDTI-16



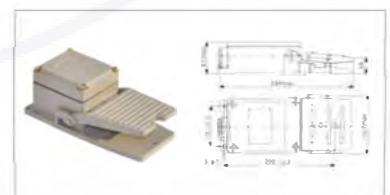
YDTI-20



LT1/6-2



LT-6H



LT-3

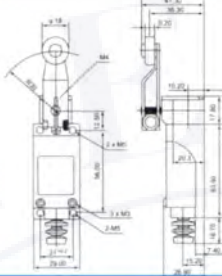
Limit Switch

Appearance and Dimension

ME-8104(TZ-8104)



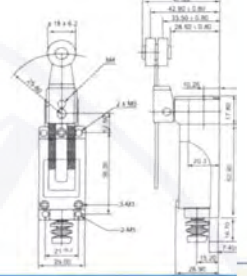
Optional Stainless steel
roller wheel



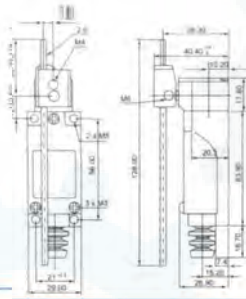
ME-8108(TZ-8108)



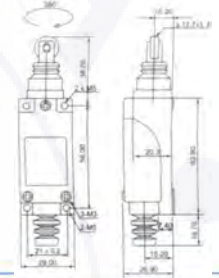
Optional Stainless steel
roller wheel



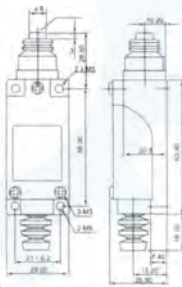
ME-8107(TZ-8107)



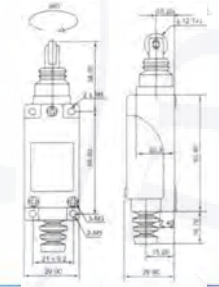
ME-8112(TZ-8112)



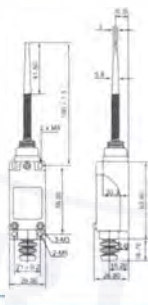
ME-8111(TZ-8111)



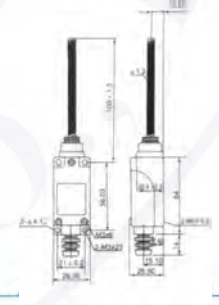
ME-8122(TZ-8122)



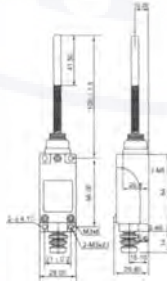
ME-8166(TZ-8166)



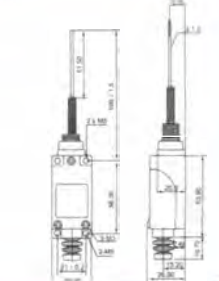
ME-8167(TZ-8167)



ME-8168(TZ-8168)



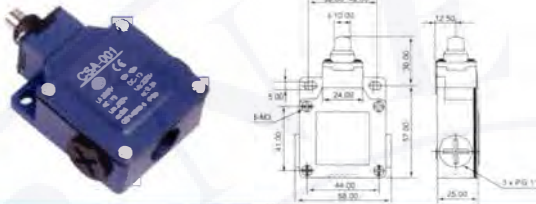
ME-8169(TZ-8169)



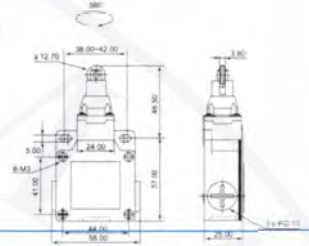
Limit Switch

Appearance and Dimension

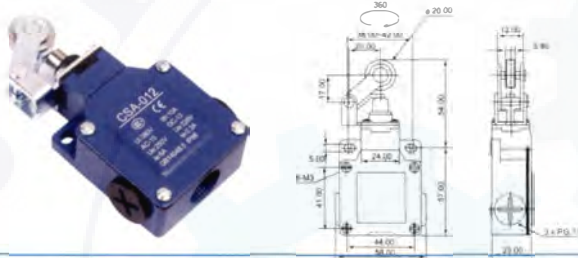
CSA-001



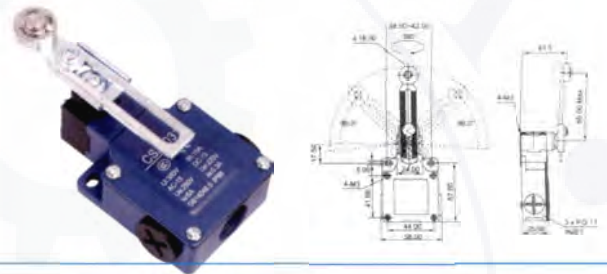
CSA-003



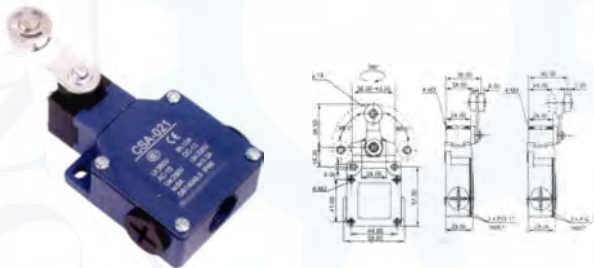
CSA-012



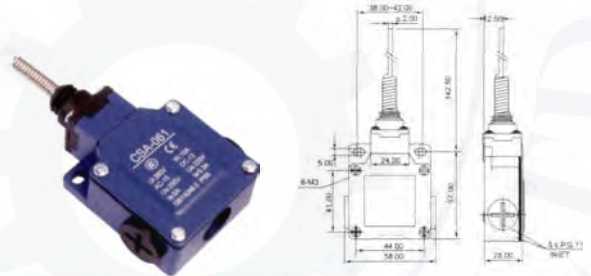
CSA-031



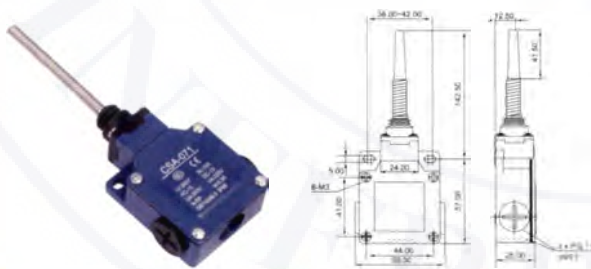
CSA-021



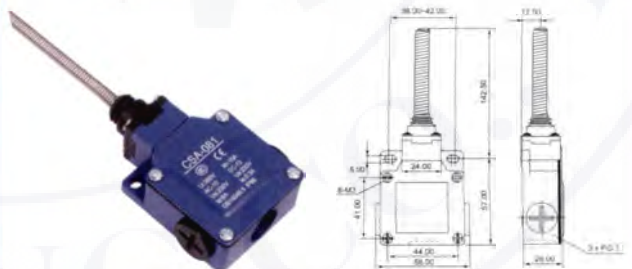
CSA-061



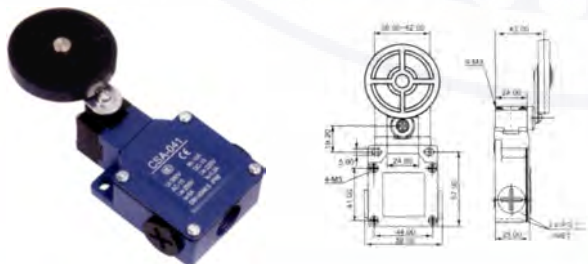
CSA-071



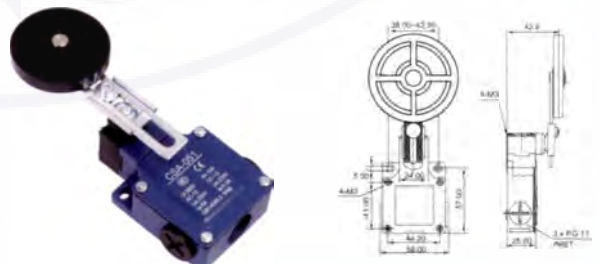
CSA-081



CSA-041



CSA-051



Limit Switch

Appearance and Dimension

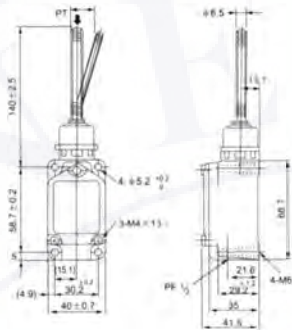
Limit Switch

<p>CWLCA2-2</p>	<p>CWLCA12-2-Q</p>
<p>CWLCL</p>	<p>CWLD</p>
<p>CWLD1</p>	<p>CWLD2</p>
<p>CWLD3</p>	<p>CWLCA12-2-QD</p>

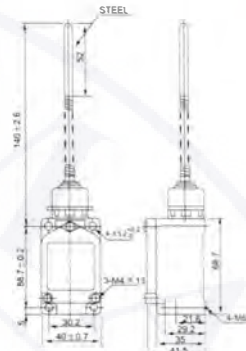
Limit Switch

Appearance and Dimension

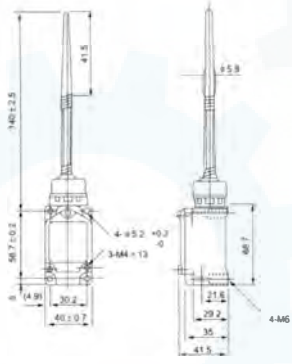
CWLNJ



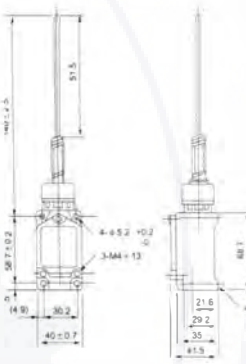
CWLNJ-30



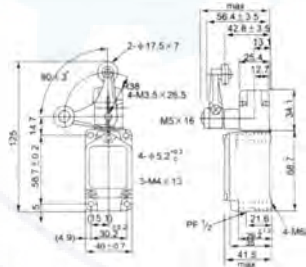
CWLNJ-2



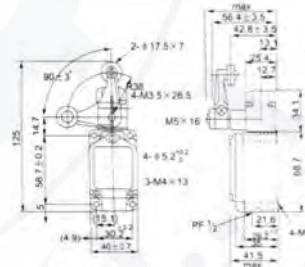
CWLNJ-S2



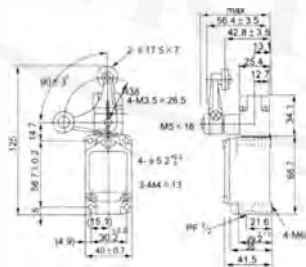
CWLCA32-41



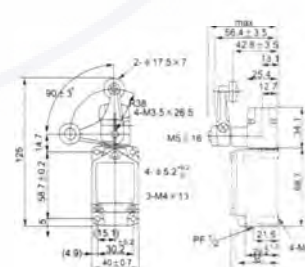
CWLCA32-41/M



CWLCA32-42



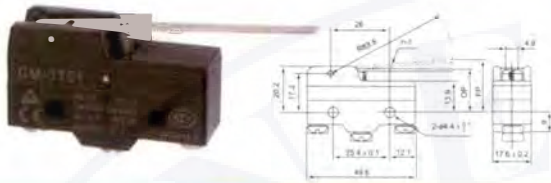
CWLCA32-42/M



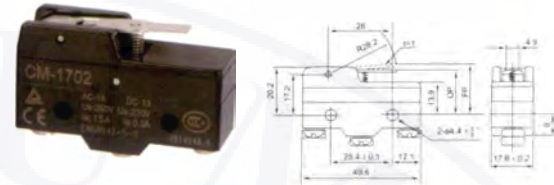
Micro Switch

Appearance and Dimension

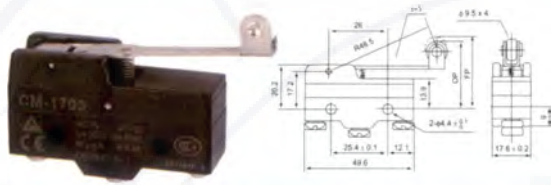
Z-15GW-B(CM-1701)



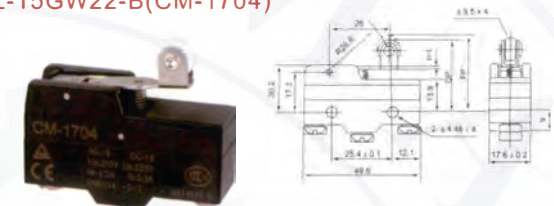
Z-15GW1-B(CM-1702)



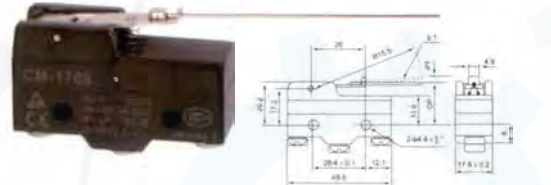
Z-15GW2-B(CM-1703)



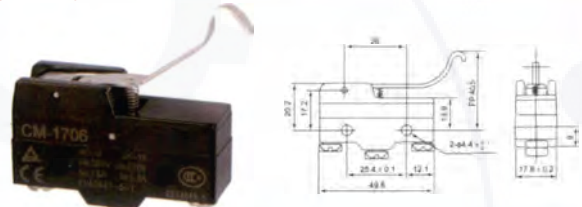
Z-15GW22-B(CM-1704)



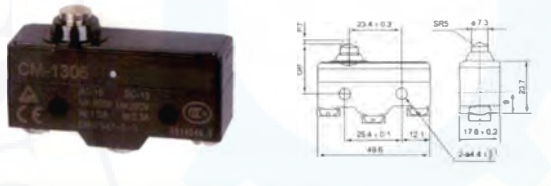
Z-15GW78-B(CM-1705)



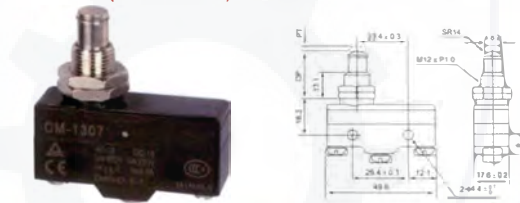
CM-1706



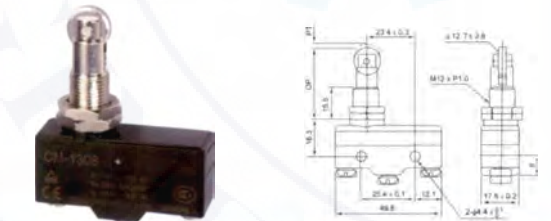
Z-15GD-B(CM-1306)



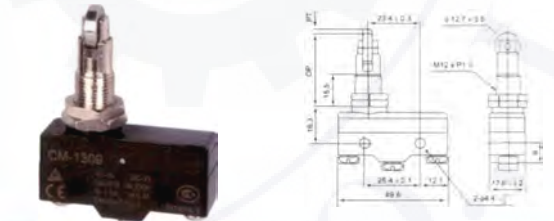
Z-15GQ-B(CM-1307)



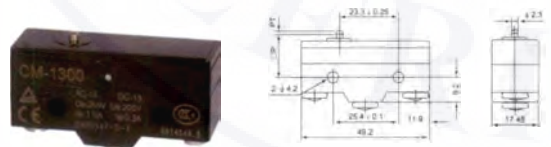
Z-15GQ22-B(CM-1308)



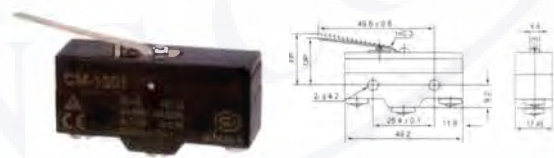
Z-15GQ21-B(CM-1309)



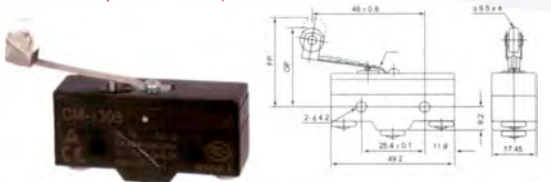
Z-15G-B(CM-1300)



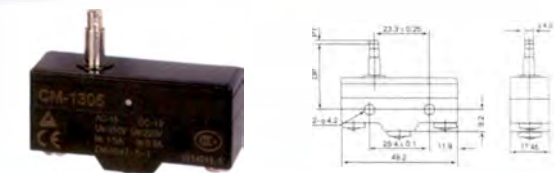
Z-15GL-B(CM-1301)



Z-15GLZ-B(CM-1303)



Z-15GS-B(CM-1305)



Micro Switch

Appearance and Dimension

<p>AZ-7121</p>	<p>AZ-7141</p>
<p>AZ-7120</p>	<p>AZ-7140</p>
<p>AZ-7124</p>	<p>AZ-7144</p>
<p>AZ-7100</p>	<p>AZ-7110</p>
<p>AZ-7310</p>	<p>AZ-7311</p>
<p>AZ-7312</p>	<p>AZ-7166</p>



ตัวแทนจำหน่ายอุปกรณ์ไฟฟ้า (Electrical Equipment) นำเข้าจากต่างประเทศ เช่น Circuit Breaker , แมกเนติก คอนแทคเตอร์ (Magnetic Contactor), Controllers Sensor Proximity switch ,Photo switch ,Push button switch ,Fan ,Inverter ,PLC ,Limit Switch, Switching Power Supply Accessories สำหรับระบบอัตโนมัติในโรงงานอุตสาหกรรม



บริษัท นิวมา เอ็นจิเนียริ่ง จำกัด (สำนักงานใหญ่)

เลขที่ 188/40 ซอยนวมินทร์ 42 แยก 27 ถนนนวมินทร์ แขวงคลองกุ่ม
เขตบึงกุ่ม กรุงเทพมหานคร 10240 โทร. 094-452-2952

E-mail: pneuma.engineer@gmail.com

เลขประจำตัวผู้เสียภาษี: 0105564087657

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