

LW30 Series Rotary Switch

Introduction

LW30 series rotary switch applied to circuits of AC 50Hz with working voltage up to 440V and rated working current up to 175A.

LW30 is suitable to control: air-conditioner, water pump and ventilating equipments, and AC:motors with small power.

LW30 series rotary switch have six current ratings:20A, 32A, 40A, 63A, 80A, 100A, 125A, 175A.

LW30 series has the finger protection terminals, which offers an extra advantage.

LW30 series switch has larger insulation distance, quick disconnecting response. And is a good choice for DC circuits. LW30 has additional contact which enable us to install the contactseparately.

LW30 series rotary switch comply with: GB/T 14048.3, and IEC 60947-3.

LW30-20



LW30-25、 32



LW30-40、 63



Working conditions

- (1) Ambient temperature DO NOT exceed 40°C, and the average temperature, measured over a period of 24 hours, DO NOT exceed 35°C.
- (2) Ambient temperature should not be below -25°C
- (3) Should not be installed above 2000m above sea level.
- (4) The humidity should not exceed 50% when the ambient temperature is 40°C and higher humidity is allowed for lower temperature.

Installation conditions

- (1) A clean environment is required
- (2) Please follow our manual

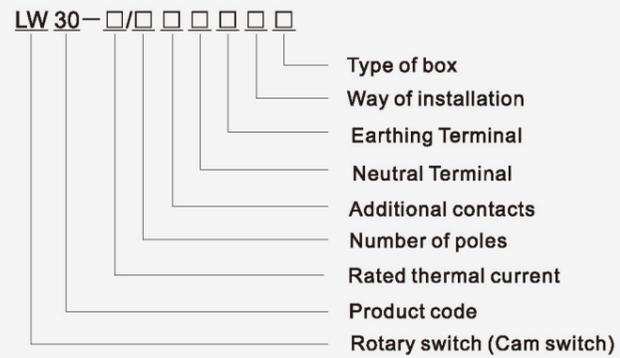
Classification

1. Classified by utilization
 - (1) AC-23A
 - (2) AC-3
2. Classified by protective leve
 - (1) Without plastic box: IP2L0
 - (2) With plastic box: IP65

LW30 Series Rotary Switch

Introduction

Designation



Accessorial code

Number of poles: 3P, 4P

Additional contacts: 0 for additional contacts not inclosed, 1 for with additional contacts.

Neutral terminal: 0 for neutral terminal not inclosed, 1 for with neutral terminal

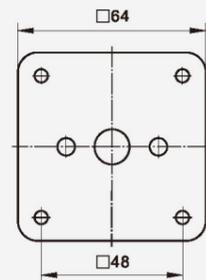
Earthing terminal: 0 for earthing terminal not inclosed, 1 for with earthing terminal

Way of Installation

1. Escutcheon plate installation with pad-lock
2. Escutcheon plate installation
3. Single pad-lock DIN-rail installation
4. Doorlock base installation with pad-lock system
5. Single hole installation

Type of box: 0 not inclosed, 1 inclosed

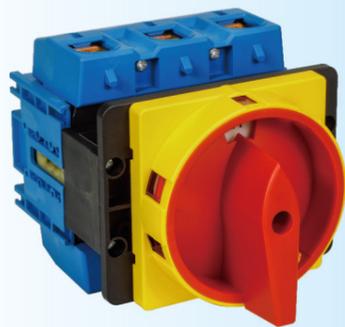
Escutcheon plate



LW30-80, 100



LW30-125, 175



LW30 Series Rotary Switch

Designation

Accessories

Single pad-lock

Multi-pad-lock

Plastic box



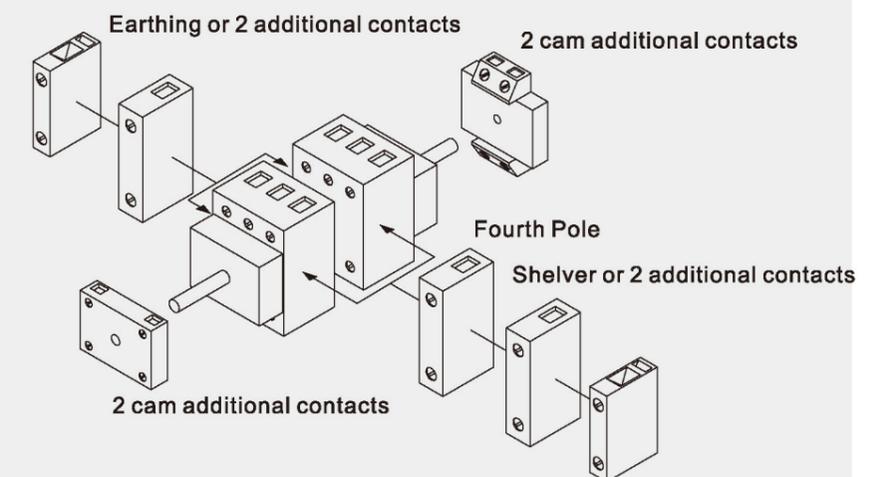
Cover



Auxiliary contact & Optional accessories



AC15 220~240V 6A/380~440V 4A



Type of handle

R Type



I Type



K Type



Description	LW30-20	LW30-25	LW30-32	LW30-40	LW30-63	LW30-80	LW30-100	LW30-125	LW30-175
Rated thermal current I _{th} A	20	25	32	40	63	80	100	125	175
Rated working voltage U _e V	240 440	240 440	240 440	240 440	240 440	240 440	240 440	240 440	240 440
Rated working current I _e /P _e									
AC-21A A/kW	20/- 20/-	20/- 20/-	32/- 32/-	40/- 40/-	63/- 63/-	80/- 80/-	100/- 100/-	125/- 125/-	175/- 175/-
AC-22A A/kW	20/- 20/-	20/- 20/-	32/- 32/-	40/- 40/-	63/- 63/-	80/- 80/-	100/- 100/-	125/- 125/-	175/- 175/-
AC-23A A/kW	11/3 11/5.5	15/4 15/7.5	22/5.5 22/11	30/7.5 30/15	43/11 43/22	57/18.5 57/30	70/22 70/37	90/30 90/45	110/30 110/55
AC-3 A/kW	7.5/2.2 7.5/3.7	11.7/3 11.7/5.5	15/4 15/7.5	22/7.5 22/11	36/11 36/18.5	43/15 43/22	57/18.5 57/30	70/22 70/37	90/30 90/45

Type of current

Alternating current 50Hz

Positions of Main contact

ON OR OFF

Rated duty

8 hours everyday, operational efficiency 30times/ hour

Electrical endurance

AC-23: 10000times, AC-3:6000times, Auxiliary contact: 2000times.

Order Procedurer

When you order our LW30 series, we need your data as following:

- Rated working current, for example: LW30-20;
- Accessorial code, please write it orderly

(1) Number of poles, for example:3P;

(2) Do you need additional contacts: 0 not inclosed, 1 inclosed;

(3) Do you need neutral terminal: 0 not inclosed, 1 inclosed;

(4) Do you need earthing terminal: 0 not inclosed, 1 inclosed;

(5) Way of installation:

- Escutcheon plate with pad-lock
- Escutcheon plate
- Single lock DIN-rail installation
- Doorlock foot installation with pad-lock system
- Single hole installation

3. Other accessorial code, please write it orderly:

- Type of Escutcheon plate: 1 Escutcheon plate; 2 Denote 22.5 hole; 3 Denote 25 hole; 4 Denote 30.5 hole.

(2) Do you need Escutcheon plate with airproof: 0 not inclosed, 1 inclosed.

(3) Color of bottom plate: 1 Denote silver color: 2 Denote yellow; 3 Make it against your color

(4) Character letter: 1 denote letter; 2Chinese letter; Special sign

(5) Code of handle: R or K or I

For example:

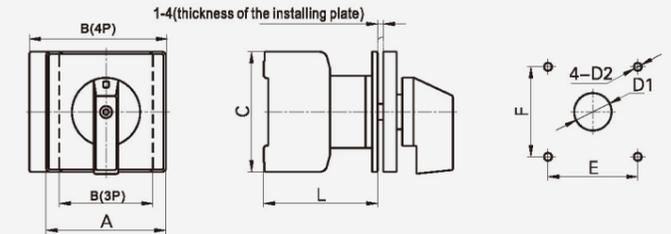
If you order 40A/3P with additional contacts and earthing terminal and Escutcheon plate without neutral terminal and plastic box.

You must write: LW30-40/310120

If you want to order 32A/3 with Doorlock base installation, you must write:LW30-32/30040.

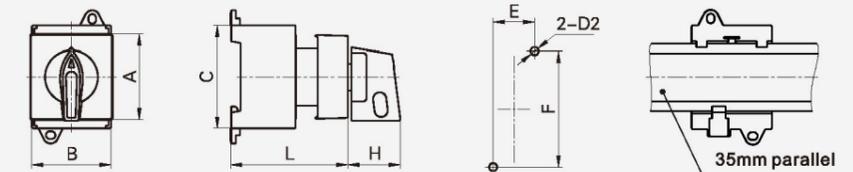
If you want to order 40A/3 with adding contacts, earthing terminal, Escutcheon plate, plate with airproof, yellow, Chinese letter, K handle; without neutral terminal and plastic box. You must write: LW30-40/310120.1123K.

Escutcheon plate installation



Specification	Dimensions (mm)					Installation (mm)			
	A	B(3P)	B(4P)	C	L	E	F	D1	D2
LW30-20	□48	48	-	50	47	36	36	∅8	∅4.2
LW30-20	□64	48	-	50	49	48	48	∅10	∅4.2
LW30-25	□64	42	55.5	54	61	48	48	∅10	∅4.2
LW30-32	□64	42	55.5	54	61	48	48	∅10	∅4.2
LW30-40	□64	50	66	64	67	48	48	∅10	∅4.2
LW30-63	□64	50	66	64	67	48	48	∅10	∅4.2
LW30-80	□64	70	92.5	80	82	48	48	∅10	∅4.2
LW30-100	□64	70	92.5	80	82	48	48	∅10	∅4.2
LW30-125	□88	112.5	150.5	108	96.5	68	68	∅15	∅6
LW30-175	□88	112.5	150.5	108	96.5	68	68	∅15	∅6

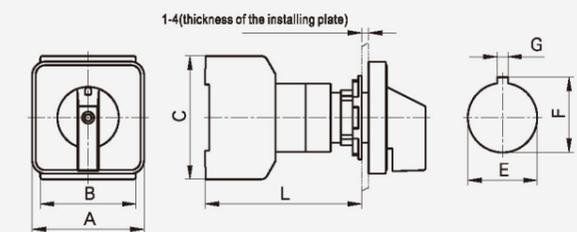
Base installation



Specification	Dimensions (mm)						Installation (mm)		
	A	B(3P)	B(4P)	C	L	H	E	F	D2
LW30-25	□45	42	55.5	54	62	26	22	60	∅4.2
LW30-32	□45	42	55.5	54	62	26	22	60	∅4.2

Re:Product can be installed in 35mm parallel.

Single hole installation

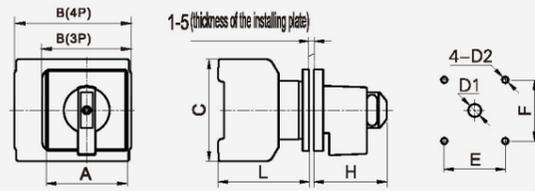


Specification	Dimensions (mm)				Installation (mm)		
	A	B	C	L	E	F	G
LW30-20	□49	42	54	69	∅22.3	24.1	3.2
LW30-20	□64	42	54	69	∅22.3	24.1	3.2
LW30-25	□49	42	54	69	∅22.3	24.1	3.2
LW30-25	□64	42	54	69	∅22.3	24.1	3.2
LW30-32	□49	42	54	69	∅22.3	24.1	3.2
LW30-32	□64	42	54	69	∅22.3	24.1	3.2

LW30 Series Rotary Switch

Dimensions and installation

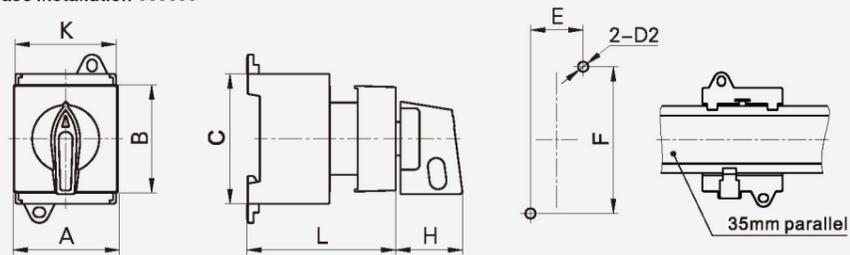
Base installation



Specification	Dimensions (mm)							Installation (mm)			
	A	B(3P)	B(4P)	C	L	H	E	F	D1	D2	
LW30-20	□48	48	48	50	47	51	36	36	∅8	∅4.2	
LW30-20	□64	48	48	50	49	58	48	48	∅10	∅4.2	
LW30-25	□64	42	56	54	61	58	48	48	∅10	∅4.2	
LW30-32	□64	42	56	54	61	58	48	48	∅10	∅4.2	
LW30-40	□64	50	66	61	67	58	48	48	∅10	∅4.2	
LW30-63	□64	50	66	61	67	58	48	48	∅10	∅4.2	
LW30-80	□64	70	92	72	82	58	48	48	∅10	∅4.2	
LW30-80	□88	70	92	73	82	76	68	68	∅15	∅6	
LW30-100	□64	70	92	72	82	58	48	48	∅10	∅4.2	
LW30-100	□88	70	92	73	82	76	68	68	∅15	∅6	
LW30-125	□88	112.5	151	108	96.5	76	68	68	∅15	∅6	
LW30-175	□88	112.5	151	108	96.5	76	68	68	∅15	∅6	

Base installation

Base installation 300030



Specification	Dimensions (mm)							Installation (mm)			
	A	B	K(3P)	K(4P)	C	L	H	E	F	D2	
LW30-25	45	45	42	56	54	62	26	22	60	∅4.2	
LW30-32	45	45	42	56	54	62	26	22	60	∅4.2	
LW30-40	53	45	50	66	66.5	62	26	25	70	∅4.2	
LW30-63	53	45	50	66	66.5	62	26	25	70	∅4.2	
LW30-80	70	45	70	92.5	80	71	35	25	90	∅4.2	
LW30-100	70	45	70	92.5	80	71	35	25	90	∅4.2	
LW30-125	113	45.5	113	151	108.5	92	58	36	120	∅6.2	
LW30-175	113	45.5	113	151	108.5	92	58	36	120	∅6.2	

LW30-25A, 32A LW30-40A, 63A



LW30-80A, 100A



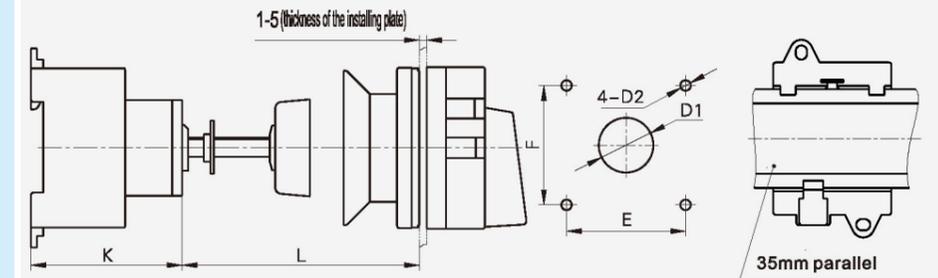
LW30-125A, 175A



LW30 Series Rotary Switch

Dimensions and installation

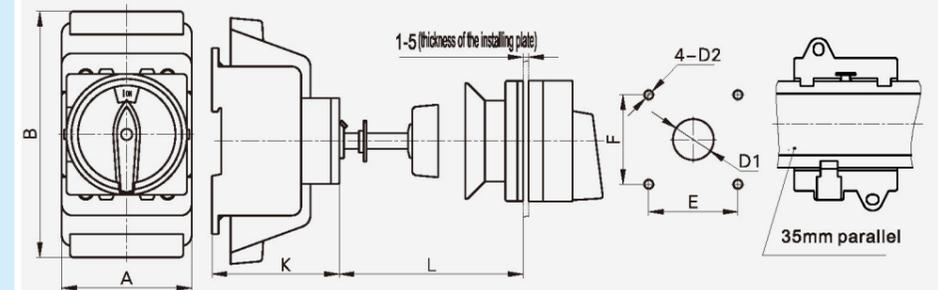
Doorlock base installation with pad-lock system



Specification	Dimensions(mm)			Installation(mm)			
	K	Lmin	Lmax	E	F	D1	D2
LW30-20	56.5	32	150	48	48	∅22	∅4.2
LW30-25	50	32	150	48	48	∅22	∅4.2
LW30-32	50	32	150	48	48	∅22	∅4.2
LW30-40	61	32	150	48	48	∅22	∅4.2
LW30-63	61	32	150	48	48	∅22	∅4.2
LW30-80	68	32	150	48	48	∅22	∅4.2
LW30-100	68	32	150	48	48	∅22	∅4.2
LW30-125	92	50	150	68	68	∅30	∅6
LW30-175	92	50	150	68	68	∅30	∅6

Re:Product can be installed in 35mm parallel.

Protective cover



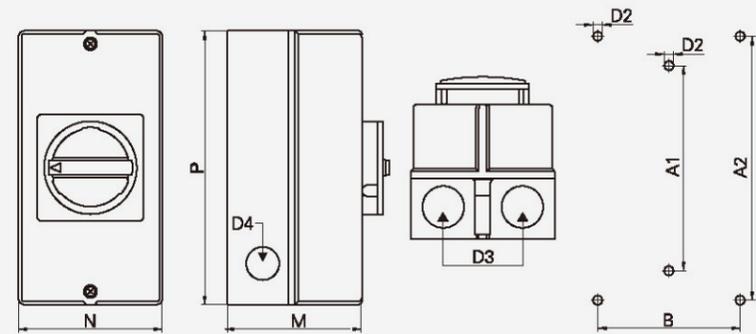
Specification	Dimensions(mm)					Installation(mm)			
	A	B	K	Lmin	Lmax	E	F	D1	D2
LW30-25	94.5	42.5	50.5	32	150	48	48	∅22	∅4.2
LW30-32	94.5	42.5	50.5	32	150	48	48	∅22	∅4.2
LW30-40	95.5	50.5	61	32	150	48	48	∅22	∅4.2
LW30-63	95.5	50.5	61	32	150	48	48	∅22	∅4.2
LW30-80	70	133	68	32	150	48	48	∅22	∅4.2
LW30-100	70	133	68	32	150	48	48	∅22	∅4.2
LW30-125	112.5	154	92	32	150	68	68	∅30	∅6
LW30-175	112.5	154	92	32	150	68	68	∅30	∅6



LW30 Series Rotary Switch

Dimensions and installation

Plastic box (IP65)



Specification	Dimensions (mm)					Installation (mm)				
	D3	D4	M	N	P	A1	A2	B	D2	
LW30-20	∅ 23	--	77	86	125	115	--	--	∅ 4.2	
LW30-25	∅ 23	∅ 19	85	83	160	150	--	--	∅ 4.2	
LW30-32	∅ 23	∅ 19	85	83	160	150	--	--	∅ 4.2	
LW30-40	∅ 29	∅ 23	100	95	190	178	--	--	∅ 4.2	
LW30-63	∅ 29	∅ 23	100	95	190	178	--	--	∅ 4.2	
LW30-80	∅ 37.5	∅ 23	144	145	250	--	229	124	∅ 6.5	
LW30-100	∅ 37.5	∅ 23	144	145	250	--	229	124	∅ 6.5	
LW30-125	∅ 50	∅ 29	180	280	280	--	257	257	∅ 6.5	
LW30-175	∅ 50	∅ 29	180	280	280	--	257	257	∅ 6.5	

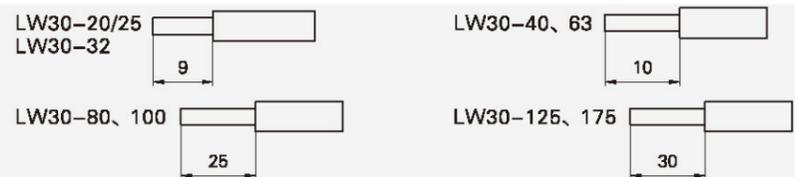
Photovoltaic (pv) DC

Designation

LW 30 - □/□□□□□□□□

- Additional function:
0-not inclosed 1-with multithrow function
2-with NONC auxiliary contact
- Plastic box: 0-not inclosed 1- inclosed
- Way of installation:
1. Escutcheon plate installation with pad-lock
2. Escutcheon plate installation
3. Doorlock base installation
4. Doorlock base installation with pad-lock system
5. Single hole installation
- Earthing terminal: 0 not inclosed, 1 inclosed
- Neutral terminal: 0 not inclosed, 1 inclosed
- Additional contacts: 0 not inclosed, 1 inclosed
- Poles:1- 3P, 2- 4P, 3-6P, 4-8P
- Rated thermal current(A)
- Product code
- Rotary switch (Cam switch)

Stripping Length

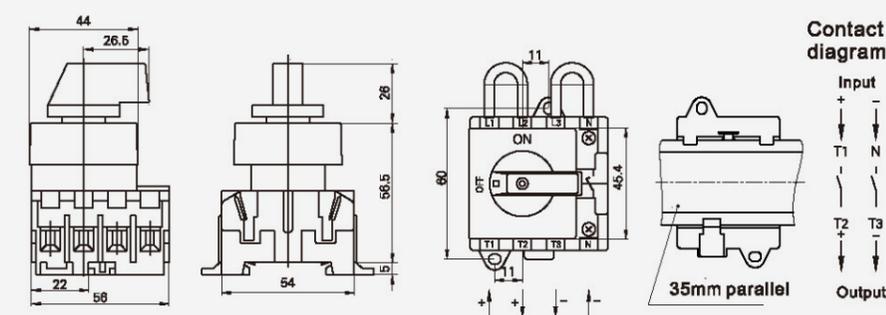


LW30 Series Rotary Switch

Photovoltaic (pv) DC

DC

1 x 2P

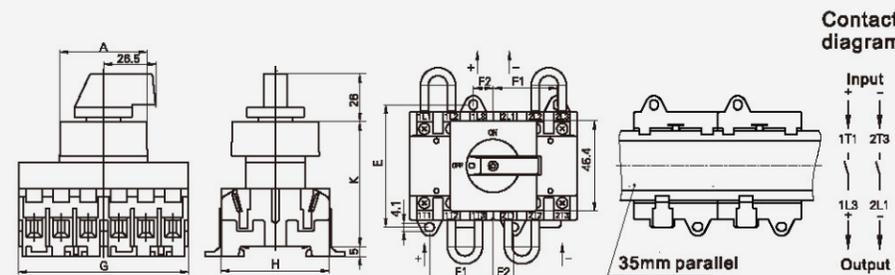


Description	Operating current	Operating Voltage(DC)	Biggest PV load voltage (DC)	Isolation Voltage	Dia of soft line(mm)
LW30-20	16 A	450 V	520 V	690 V	∅ 2.5
LW30-32	25 A	450 V	520 V	690 V	∅ 4
LW30-40	32 A	450 V	520 V	690 V	∅ 4.5
LW30-20	12 A	500 V	575 V	690 V	∅ 2.5
LW30-32	20 A	500 V	575 V	690 V	∅ 4

Usage: DC-22A

DC

1 x 2P



Specification	A	E	F1	F2	G	H	K
LW30-20/LW30-32	44	60	32	10	84	54	64
LW30-40	105.4	70	37.5	12.5	100	64	62.5

Specification	Operating current	Operating Voltage(DC)	Biggest PV load voltage (DC)	Isolation Voltage	Dia of soft line(mm)
LW30-20	16 A	650 V	750 V	1000 V	∅ 2.5
LW30-32	32 A	500 V	575 V	1000 V	∅ 4
LW30-40	32 A	650 V	750 V	1000 V	∅ 4.5
LW30-20	12 A	800 V	920 V	1000 V	∅ 2.5
LW30-32	25 A	650 V	750 V	1000 V	∅ 4

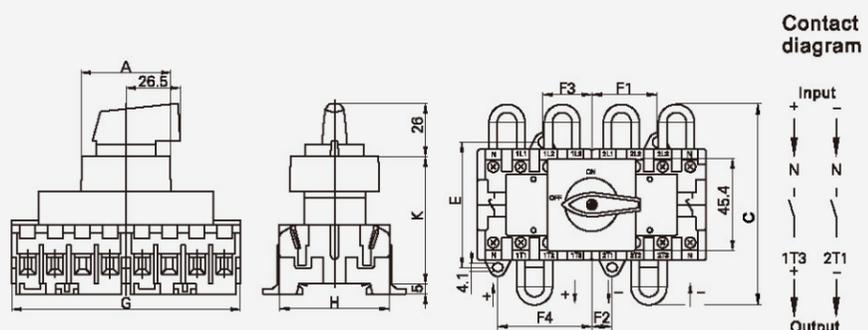
Usage: DC-22A



LW30 Series Rotary Switch

Photovoltaic (pv) DC

DC 1×2P

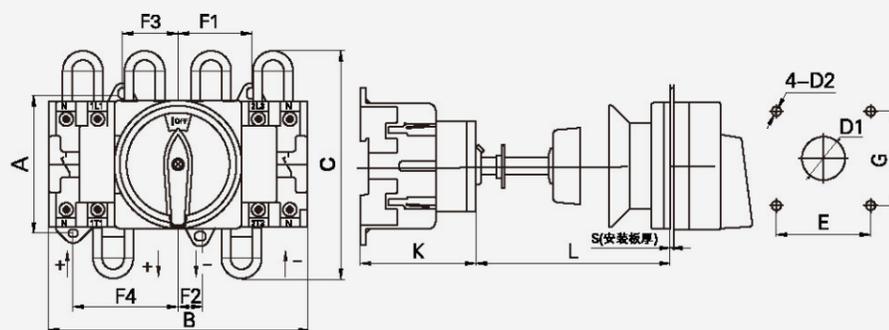


Description	A	C	E	F1	F2	F3	F4	G	H	K
LW30-20/LW30-32	44	100	60	32	10	24	46	111	54	64
LW30-40	105.4	100	70	37.5	12.5	28.5	53.5	132	64	62.5

Description	Operating current	Operating Voltage(DC)	Biggest PV load voltage (DC)	Isolation Voltage	Dia of soft line(mm)
LW30-20	16 A	800V	920 V	1000 V	∅ 2.5
LW30-32	25 A	800 V	920 V	1000 V	∅ 4
LW30-40	32 A	800 V	920 V	1000 V	∅ 4.5

Usage: DC-22A

DC 1×2P



Description	Dimensions (mm)										Installation (mm)			
	A	B	C	K	F1	F2	F3	F4	L	S	E	G	D1	D2
LW30-20	60	111	100	50.5	32	10	24	46	32~150	1~5	48	48	∅ 22	∅ 4.5
LW30-25	60	111	100	50.5	32	10	24	46	32~150	1~5	48	48	∅ 22	∅ 4.5
LW30-32	60	111	100	50.5	32	10	24	46	32~150	1~5	48	48	∅ 22	∅ 4.5
LW30-40	70	132	120	61	37.5	12.5	28.5	53.5	32~150	1~5	48	48	∅ 22	∅ 4.5
LW30-63	70	132	120	61	37.5	12.5	28.5	53.5	32~150	1~5	48	48	∅ 22	∅ 4.5

Description	Operating current	Operating Voltage(DC)	Biggest PV load voltage (DC)	Isolation Voltage	Dia of soft line(mm)
LW30-20	16 A	800V	920 V	1000 V	∅ 2.5
LW30-32	25 A	800 V	920 V	1000 V	∅ 4
LW30-40	32 A	800 V	920 V	1000 V	∅ 4.5

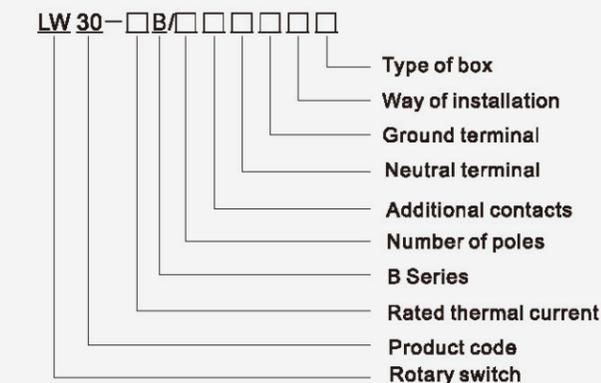
Usage: DC-22A

LW30 B Series Rotary Switch

Introduction

LW30B series rotary switches mainly used as the main switch of the ventilation equipment, air-conditioner and the water pump system, and also can directly control of AC motor.

Designation



Accessorial code

Number of poles:3P, 4P
 Additional contacts:0 for additional contacts not inclosed
 1 for with additional contacts
 Neutral terminal:0 for neutral terminal not inclosed
 1 for with neutral terminal
 Ground terminal:0 for ground terminal not inclosed
 1 for with ground terminal.

Installation

- 1.Pad-lock escutcheon plate
 - 2.Escutcheon plate
 - 3.Single lock parallel installation
 - 4.Doorlock safety switch with padlock system
 - 5.Single hole installation
- Type of box:0 with protective box,1 with Ip65 plastic box

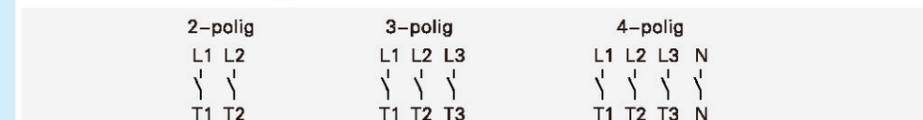
Technical parameters

Specification	LW30-16B	LW30-20B	LW30-25B	LW30-32B
rated thermal current Ith A	16	20	25	32
rated working current Ue V	220	440	440	440
AC-21A A	16	16	20	25
AC-22A A	16	16	20	25
AC-23A kW	2	7.5	10	12

Mechanism life

AC-23A is 10000 times/h

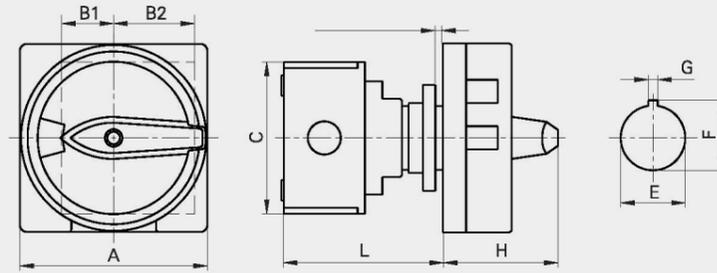
Functional diagram



LW30 B Series Rotary Switch

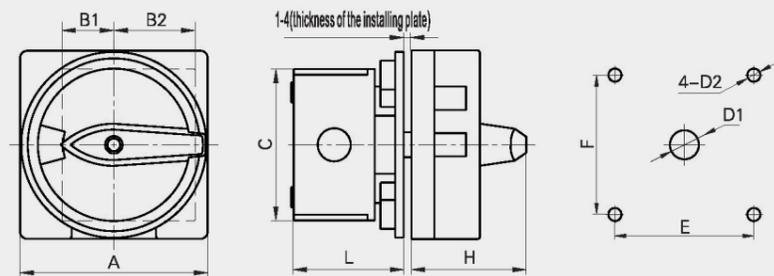
Dimensions and installation

Single hole installation



Specification	Dimensions(mm)										Installation (mm)		
	A	B1(2P)	B1(3P)	B1(4P)	B2(2P)	B2(3P)	B2(4P)	C	L	H	E	F	G
LW30-16B	□64	18			18			54	55	40.1	22.3	24.1	3.2
LW30-20B	□64		28	28		18	28	54	55	40.1	22.3	24.1	3.2
LW30-25B	□64		28	28		18	28	54	55	40.1	22.3	24.1	3.2
LW30-32B	□64		28	28		18	28	54	55	40.1	22.3	24.1	3.2

Panel installation



Specification	Dimensions(mm)										Installation(mm)			
	A	B1(2P)	B1(3P)	B1(4P)	B2(2P)	B2(3P)	B2(4P)	C	L	H	E	F	D1	D2
LW30-16B	□48	18			18			54	39	33	36	36	∅10	∅4.2
LW30-16B	□64	18			18			54	39	40.1	36	36	∅10	∅4.2
LW30-20B	□48		28	28		18	28	54	39	33	36	36	∅10	∅4.2
LW30-20B	□64		28	28		18	28	54	39	40.1	36	36	∅10	∅4.2
LW30-25B	□48		28	28		18	28	54	39	33	36	36	∅10	∅4.2
LW30-25B	□64		28	28		18	28	54	39	40.1	36	36	∅10	∅4.2
LW30-32B	□48		28	28		18	28	54	39	33	36	36	∅10	∅4.2
LW30-32B	□64		28	28		18	28	54	39	40.1	36	36	∅10	∅4.2

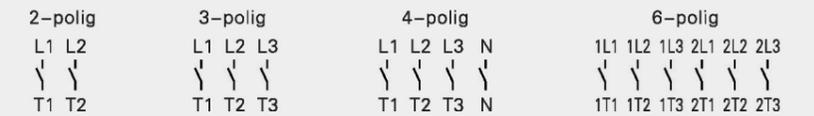
LW30 B Series Rotary Switch

Technical parameters

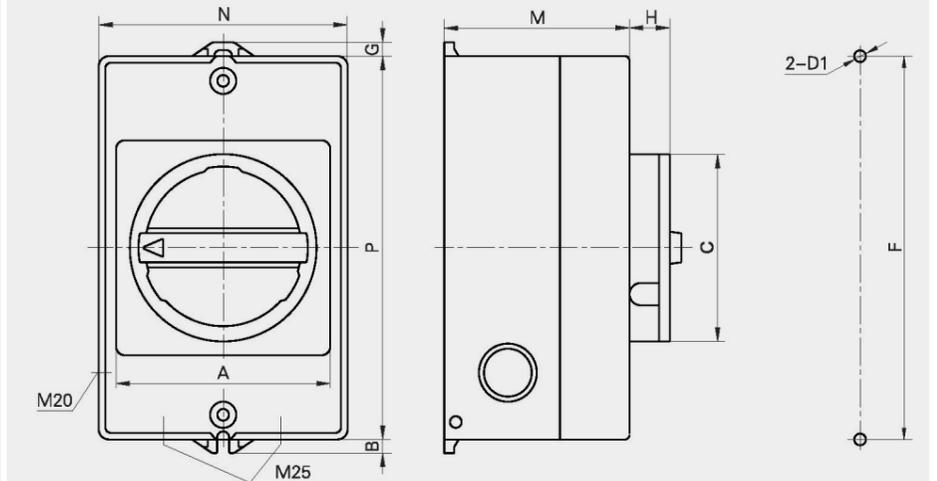
Specification	LW30-16B	LW30-20B	LW30-25B	LW30-32B
Rated insulation voltage U _i V	690	690	690	690
Rated thermal current I _{th} A	16	20	25	32
Rated working voltage U _e V	220 440	440	440	440
AC-23A kW	2 7.5	10	12	16

Specification	LW30-32B(4P)	LW30-32B(4P)	LW30-32B(6P)	LW30-32B(6P)
Rated insulation voltage U _i V	690	690	690	690
Rated thermal current I _{th} A	32	32	32	32
Rated working voltage U _e V	440	500	650	800
DC-22A kW	22	18	22	22

Functional diagram



Thermoplastic sealing box(IP65)



Specification	Dimensions(mm)								Installation(mm)	
	A	P	N	B	G	M	H	C	F	D1
LW30-16B	□74	132	86	5	5	65	18	∅66	132	∅4.2
LW30-20B	□74	132	86	5	5	65	18	∅66	132	∅4.2
LW30-25B	□74	132	86	5	5	65	18	∅66	132	∅4.2
LW30-32B	□74	132	86	5	5	65	18	∅66	132	∅4.2