

GDS

DC isolation switches



DC ISOLATION SWITCH



Features

- Non-polarity DC Isolator Switch
- Modular design, optional 2-10 levels.
- Positive contact or reverse contact optional.
- Single Hole Mounting, Panel Mounting, Distribution Board, Door Clutch or Enclosure optional.
- Dynamic sealing design and world class sealing materials guarantee an IP66 protection rate.
- DC 1500V insulation voltage design, passed IEC/EN60947-3:2009+A1+A2, AS60947.3, UL508I,GB/T14048.3 test, with TUV, CE, CB, SAA, UL, CCC certifications.

Select Code

G	D	S	□	□	/	□	/	□	□	(T)
1	2	3	4	5	6	7	8	9	10	

Code	Name	Description
1	Brand	G
2	DC	D
3	Isolation Switch	S
4	Series	5: Series 5 (Reverse Contact) 6: Series 6 (positive contact)
5	Mounting Type	HM: Single Hole Mounting PM: Panel Mounting DB: Distribution Board DC: Door Clutch
6	1000V Rated Current	13: 13A 20: 20A 25: 25A 40: 40A 50: 50A UL 13: 13A 20: 20A 25: 25A 30: 30A
7	Pole	2: 2P 3: 3P 4: 4P 6: 6P 8: 8P 10: 10P 2H/3H/4H 4T/4B/4S UL 2: 2P 3: 3P 4: 4P 6: 6P 8: 8P 10: 10P
8	Knob lock	R: lockable Nil: With out lock
9	Knob Direction	(9D): 9 o'clock, OFF 12 o'clock, ON Nil: 12 o'clock, OFF 3 o'clock, ON

Note* The direction of PM rotary buttons is 9 o'clock to close and 12 o'clock to open, and the rest of the rotary buttons are 12 o'clock to close and 3 o'clock to close.
HM series rotary buttons have both the directions.
If you have special needs, please kindly check with us.

Note* Installation method: 6 series: HM, PM (with lock only), DB, DC, EL, ELA
5 series: HM, PM (with lock only)



DC ISOLATION SWITCH

Technical data

According to EN60947-3, AS 60947-3. Utilization category DC-PV1 / DC-PV2.

Main Parameters

Model	A	13	20	25	40	50
Rated insulation voltage Ui	V	1500	1500	1500	1500	1500
Rated thermal current Ith	A	32	40	55	55	55
Rated impulse withstand voltage Uimp	V	8000				
Rated short-time withstand current (1s) Icw	A	780				
Rated short-time making capacity Icm	A	1200				
Maximum cable cross sections (incl. jumper)						
Solid or stranded	mm ²	4-16				
Flexible	mm ²	4-16				
Flexible (+ multicore cable end)	mm ²	4-16				
Torque						
Tightening torque terminal screws M4.	Nm	1.2-1.8				
Tightening torque single hole mounting nut M16	Nm	2.0-2.3				
Tightening torque knob screws M3	Nm	0.5-0.7				
Switching on or off torque	Nm	0.9-1.3				
General parameters						
Knob positions		12 o'clock OFF, 3 o'clock ON (9 o'clock OFF, 12 o'clock ON)				
Electrical Life	Actual	3000 Cycles				
	Standard	300 Cycles				
Mechanical Life	Actual	10000 Cycles				
	Standard	10000 Cycles				
Distance of contacts (per pole)	mm	8				
Operation temperature	°C	-40 to +85				
Store temperature	°C	-40 to +85				
Pollution degree		3				
Overvoltage category		II				
IP rating of shafte and mounting nut		IP66				

DC ISOLATION SWITCH



Technical data

According to EN60947-3, AS/NZS 60947-3. Utilization category DC-PV2 / DC-PV1.

Layers	Voltage / current (DC-PV1)					
	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc	Model
2/3/4/6/8/10	32	26	13	10	5	GDS5(6)XX/13/ZY
	40	30	20	12	6	GDS5(6)XX/20/ZY
	55	45	25	15	8	GDS5(6)XX/25/ZY
	/	50	40	30	20	GDS5(6)XX/40/ZY
	/	55	50	40	30	GDS5(6)XX/50/ZY
4T/B/S	/	/	32	26	13	GDS5(6)XX/13/ZY
	/	/	40	30	20	GDS5(6)XX/20/ZY
	/	/	55	40	30	GDS5(6)XX/25/ZY
	/	/	/	/	45	GDS5(6)XX/40/ZY
	/	/	/	/	50	GDS5(6)XX/50/ZY
3T/6T/9T	/	/	32	23	10	GDS5(6)XX/13/ZY
	/	/	40	30	13	GDS5(6)XX/20/ZY
	/	/	55	40	20	GDS5(6)XX/25/ZY
	/	/	/	45	30	GDS5(6)XX/40/ZY
	/	/	/	50	40	GDS5(6)XX/50/ZY
2H	50	26	13	10	5	GDS5(6)XX/13/ZY
	64	30	20	12	6	GDS5(6)XX/20/ZY
	80	45	25	15	8	GDS5(6)XX/25/ZY
	90	50	40	30	20	GDS5(6)XX/40/ZY
	100	55	50	40	30	GDS5(6)XX/50/ZY
3H	/	50	13	10	5	GDS5(6)XX/13/ZY
	/	64	20	12	6	GDS5(6)XX/20/ZY
	/	80	25	15	8	GDS5(6)XX/25/ZY
	/	90	40	30	20	GDS5(6)XX/40/ZY
	/	100	50	40	30	GDS5(6)XX/50/ZY
4H	/	/	50	10	5	GDS5(6)XX/13/ZY
	/	/	64	12	6	GDS5(6)XX/20/ZY
	/	/	80	15	8	GDS5(6)XX/25/ZY
	/	/	90	30	20	GDS5(6)XX/40/ZY
	/	/	100	40	30	GDS5(6)XX/50/ZY



DC ISOLATION SWITCH

Technical data

Layers	Voltage / current (DC-PV2)					
2/3/4/6/8/10	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc	Model
	13	13	6	4	3	GDS5(6)XX/13/ZY
	20	15	8	6	4	GDS5(6)XX/20/ZY
	25	23	10	8	5	GDS5(6)XX/25/ZY
	40	30	20	15	8	GDS5(6)XX/40/ZY
	50	40	25	18	10	GDS5(6)XX/50/ZY
4T/B/S/3T/6T/9T	/	/	12	/	/	GDS5(6)XX/13/ZY
	/	/	18	/	/	GDS5(6)XX/20/ZY
	/	/	20	/	/	GDS5(6)XX/25/ZY
	/	/	40	/	/	GDS5(6)XX/40/ZY
	/	/	50	/	/	GDS5(6)XX/50/ZY

According to UL 508i

Layers	Voltage / current (UL 508i)			
2/3/4/6/8/10	600VDC	800VDC	1000VDC	Model
	30	30	13	GDS5(6)XX/13/ZY
	30	30	20	GDS5(6)XX/20/ZY
	30	30	25	GDS5(6)XX/25/ZY
	30	30	30	GDS5(6)XX/30/ZY

Note* 10P products needs to be customized, please kindly contact us if need them

DC ISOLATION SWITCH



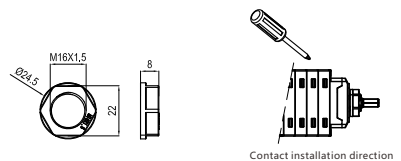
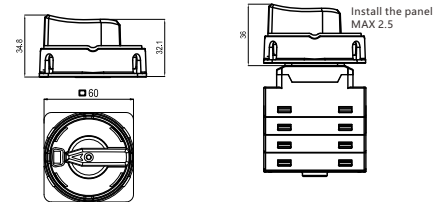
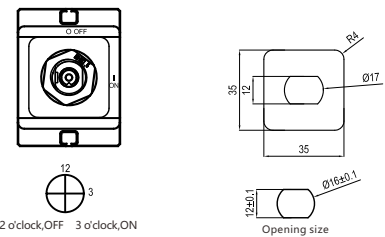
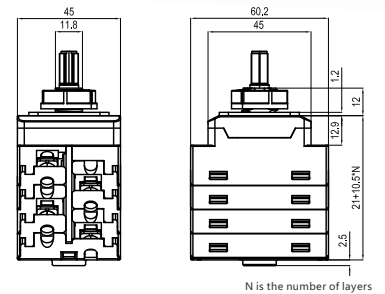
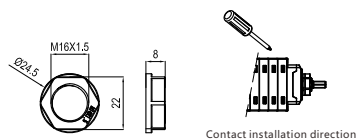
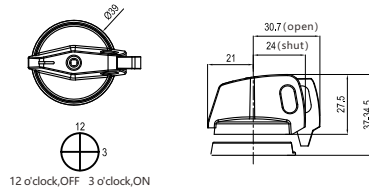
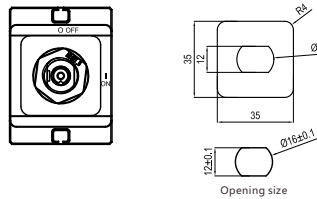
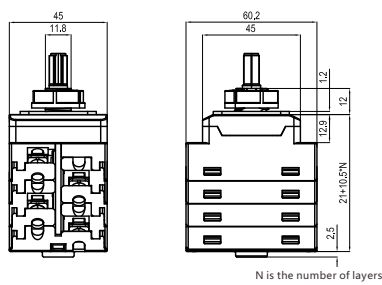
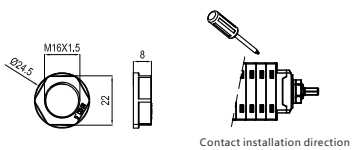
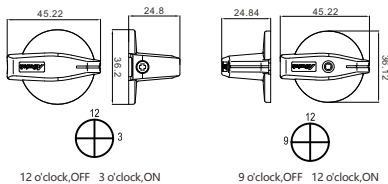
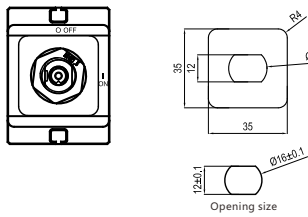
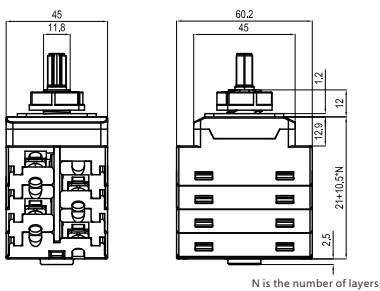
GDS5HM



GDS5HMR



GDS5PMR





DC ISOLATION SWITCH

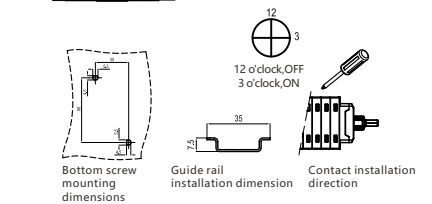
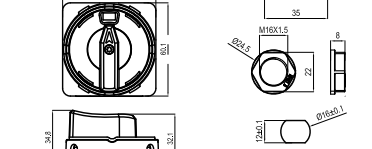
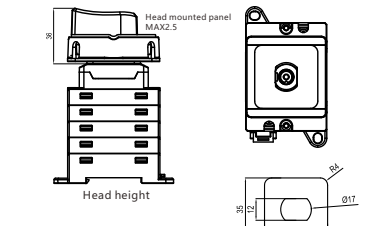
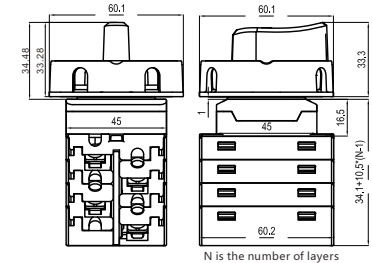
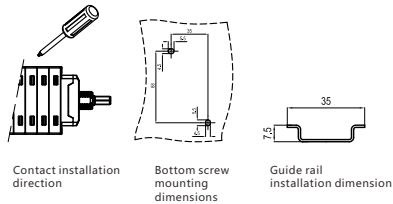
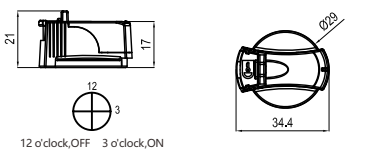
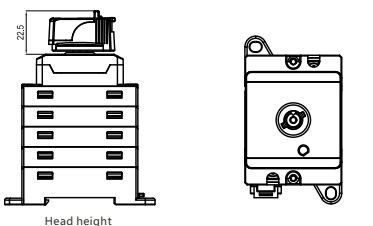
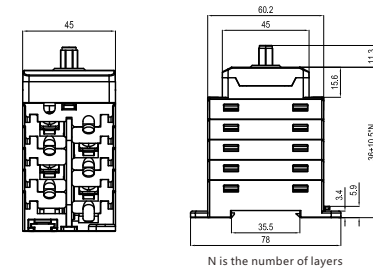
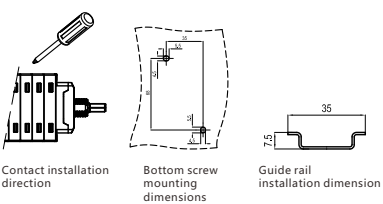
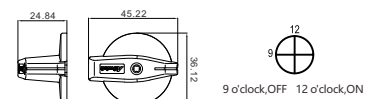
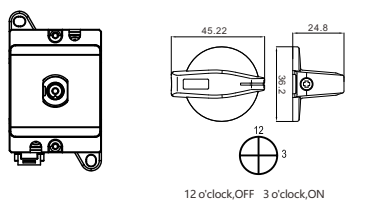
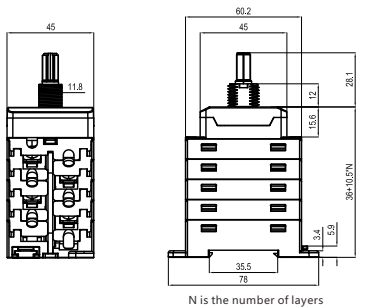
GDS6DB



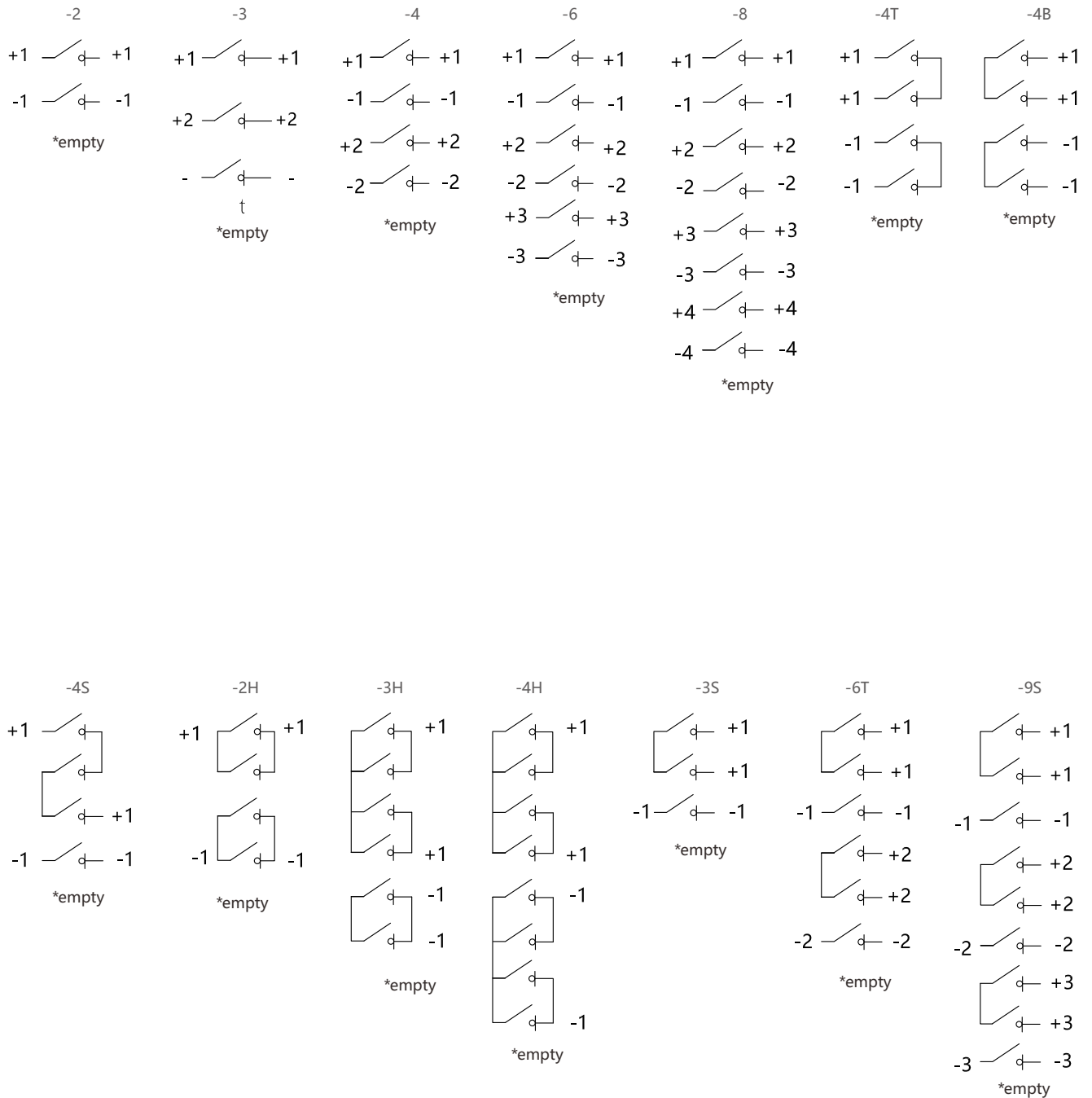
GDS6DBR



GDS6PMR



DC ISOLATION SWITCH



*Note 5 series have no empty layer, 6 series have empty layer