



Description

NOVA NDCS discrepancy switches are used to control & monitor the circuit breaker and disconnecting switches. Also display their circuit state in mimic panels and illuminated mimic diagrams. When it lights up that means the position of the discrepancy switch does not match with the pre-assigned circuit breaker. The luminous source is from high brightness LED lamp with Yellow color.

Features

- ✓ Robust, durable, compact and luxurious design
- ✓ Provide both round and square installation flanges
- ✓ 2 point switching type (by pushing and turning to right or left side)
- ✓ High brightness LED chip technology with built in current limiting resistor and zener diode.
- ✓ Various input voltages (both AC & DC) for LED indicator
- ✓ Flash light could be supplied as an option
- ✓ Finger proof terminal

Specification

Conforming to standards IEC 60947-3 and IEC 60947-5-1

Description		NDCS – 20	NDCS – 25	NDCS – 32	
Rated insulation voltage U_i	V	690	690	690	
Rated thermal current I_{th}	A	20	25	32	
Rated operational current I_e					
AC – 21A, AC – 22A	A	20	25	32	
AC – 23A	A	15	22	30	
AC – 2	A	15	22	30	
AC – 3	A	11	15	22	
AC – 4	A	3.5	6.5	11	
AC – 15 (220V-240V)	A	5	8	14	
Power rating					
AC – 23A (380V-440V) / (220V-240)	kW	7.5/3.7	11/5.5	15/7.5	
AC – 2 (380V-440V) / (220V-240)	kW	7.5/3.7	11/5.5	15/7.5	
AC – 3 (380V-440V) / (220V-240)	kW	5.5/3	7.5/3.7	11/5.5	
AC – 4 (380V-440V) / (220V-240)	kW	1.5/1.5	3/2.2	5.5/3	
Rated Impulse Withstand Voltage U_{imp}	kV	6	6	6	
DC Switching Capacity					
Resistive loads	Voltage				
T = 1 ms	24	A	20	25	32
	48	A	12	20	25
	60	A	4.5	7.5	10
	110	A	1	1.5	2
	220	A	0.4	0.5	0.5
Inductive loads	Voltage				
T = 50 ms	24	A	12	20	25
	48	A	2	3	3
	60	A	1	1.5	1.5
	110	A	0.4	0.5	0.5
	220 (2 Contacts in series)	A	0.4	0.5	0.5

Remark : The power under AC-23A, AC-3, AC-4 are in three phase/three pole and the divider represents the power under single phase/two pole.

Mechanical life

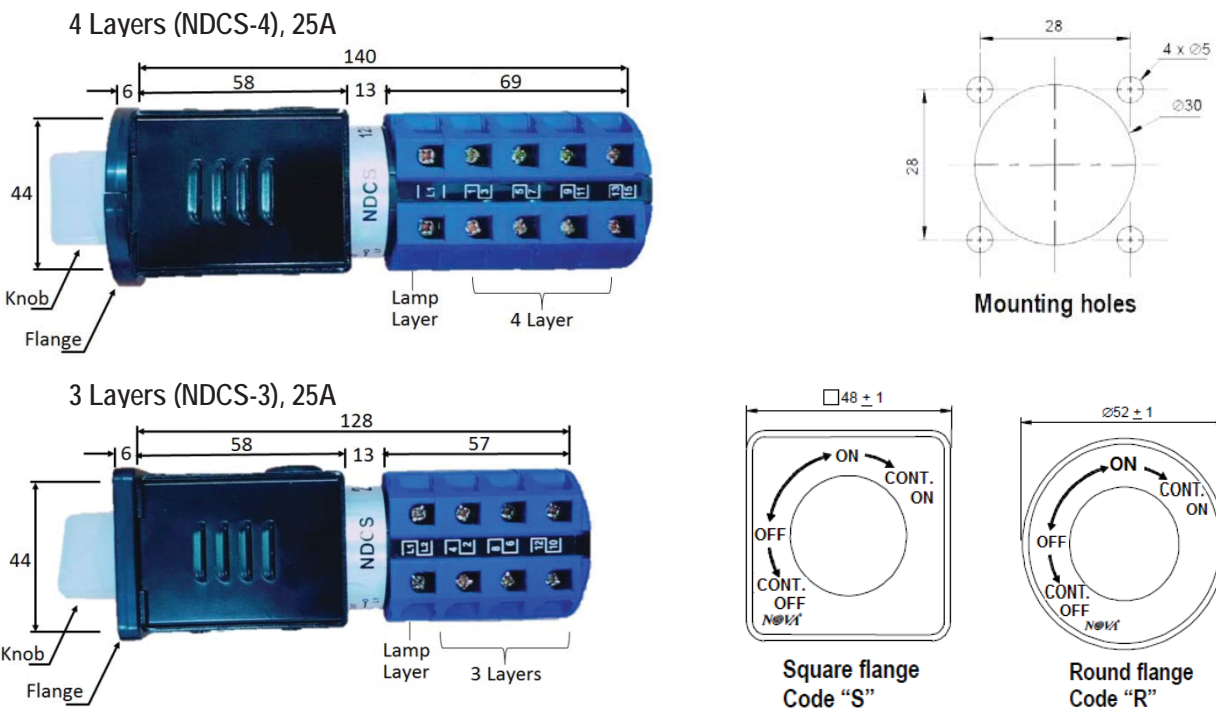
Mechanical life without load : 60×10^4 times, operation frequency is 120 times/h.

Mechanical life with load : 20×10^4 times under AC-15. 6×10^4 times under DC-13, operation frequency is 300 times/h

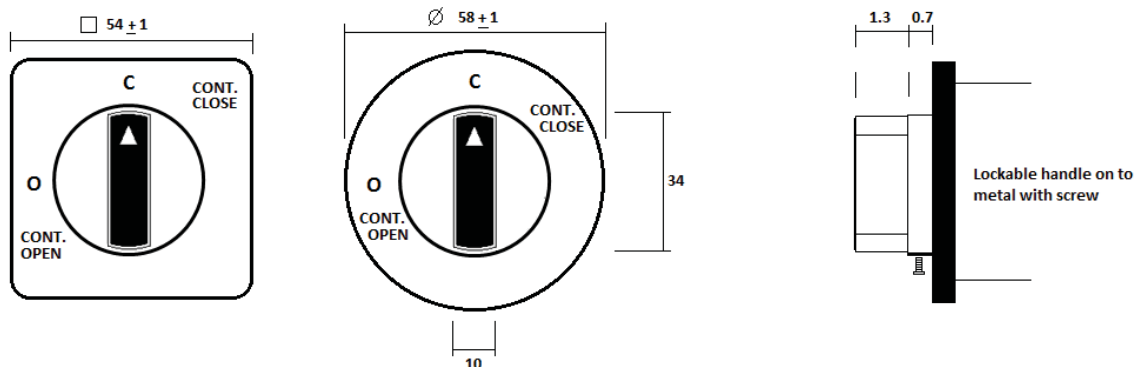
NDCS-20 / NDCS-25

Rated insulation voltage	690V
AC rated frequency	50/60 Hz
Rated thermal current	20A / 25A / 32A
DC Switching capacity 1 contact (T = 1 ms, T = 50 ms) @110VDC	(1.0A / 0.4A) / (1.5A / 0.5A) / (2A / 0.5A)
Input voltages for LED lamp	24, 48, 110, 125 and 220 V AC/DC (±10%)
Mechanical durability	100,000 operations up
Electrical durability	500,000 operations up
Ambient temperature	-5°C to +55°C
Storage temperature	-20°C to +70°C
Switching operations	2 point switching (by pushing and turning to right or left side)
Conductor size	0.5 – 4 mm ² .

Dimension

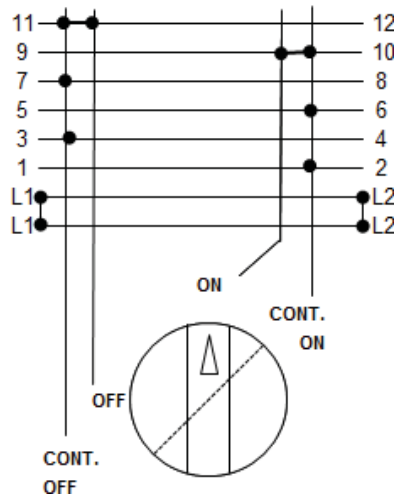


Lockable handle/ bigger knob

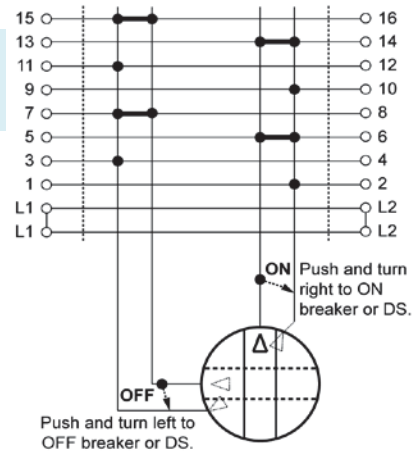


Wiring Diagram

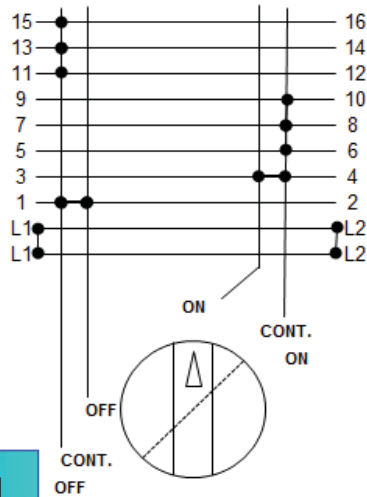
NDCS-3 Layer



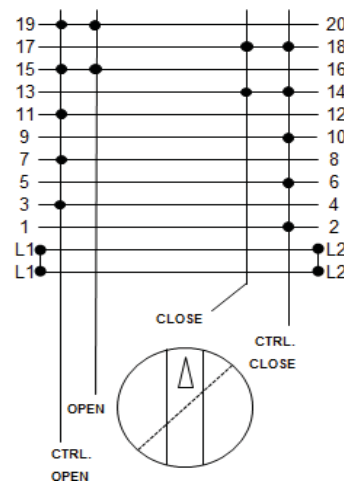
NDCS-4 Layer Type A



NDCS-4 Layer Type B



NDCS-5 Layer



Product Coding

NDCS 20-4-24-SN F

Basic type

Rating	
20	20A
25	25A
32	32A

LED Operation

N/A	Normal LED
F	Flash light LED

Number of layer

3	3 Layer*
4	4 Layer*
5	5 Layer*

*One more layer for LED lamp will be added.

Input voltage for LED lamp

24	24V AC/DC
48	48V AC/DC
11	110V AC/DC
13	125V AC/DC
22	220V AC/DC

Shape of flange

SN	Square (Normal Knob)
RN	Round (Normal Knob)
SB	Square (Big Knob)
RB	Round (Big Knob)

Remark : Other number of layers can be made upon request.