

Gränslägesbrytare / Limit Switches

38 020 90-96

SPECIFICATIONS

Electrical Data

Rated insulation voltage, U_i	400V
Thermal current, I_{th}	10A
Rated operational voltage, U_e	250V
Utilization category	AC-15
Direct opening action	Acc. to IEC 947-5-1
Protection class	I
Contact resistance	15m Ω max
Insulation resistance	100M Ω max at 500V DC
Dielectric strength, terminals	1000V AC 50/60Hz, 1 min
Dielectric strength, terminal-earth	1500V AC 50/60Hz, 1 min

Rated operational current, I_e :

Rated voltage	Non-inductive load				Inductive load			
	Resistive		Lamp		Inductive		Motor	
	NC	NO	NC	NO	NC	NO	NC	NO
125V AC	5	5	1.5	0.7	3	3	2	1
250V AC	5	5	1	0.5	3	3	1.5	0.8
8V DC	5	5	3	3	5	4	3	3
14V DC	5	5	3	3	4	4	3	3
30V DC	5	5	3	3	4	4	3	3
125V DC	0.4	0.4						
250V DC	0.2	0.2						

Inrush current NC: Max 24A. NO: Max 12A

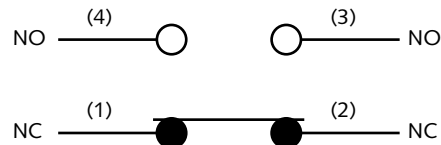
Notes:

- Inductive load, power factor of 0.4 min. (AC) and a time constant of 7 ms. Max. (DC).
- Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.

Mechanical Data

Enclosure	Die-cast zinc-alloy
Cover	Reinforced thermoplastic
Operating temperature	-5°C – +65°C
Humidity	Max 95%RH
Vibration	10-55Hz, 1.5 mm double amplitude
Shock	30G, 18ms
Electric operating frequency	30 operations/min
Mechanic operating frequency	120 operations/min
Service life	Mech.: 10×10^6 Electric: 0.5×10^6
Degree of protection	IP65
Cable entrance	Rubber gasket, \varnothing 6-9 mm
Terminal connection	Screw type with wire protector
Wire cross-sections	Solid/stranded/flexible: 2 mm ²

Contact Configuration



CHANGING DIRECTION OF HEAD

Applies to the following items:

3802092 (8104T) 3802093 (8108T) 3802094 (8107)

Steps:

1. Remove the plastic lid.
2. Remove the metal lock sprint carefully using pliers or a slot screwdriver (see pic. A). Pull straight out.
3. Unscrew the Phillips screw at top of the head. Do not remove the Torx screws!
4. Turn the head to the correct direction.
5. Fasten the Phillips screw to secure the head.
6. Reinsert the metal lock sprint and push the lock sprint all the way in.
7. Check that the gasket is undamaged and in place.

Applies to the following item:

3802091 (8112)

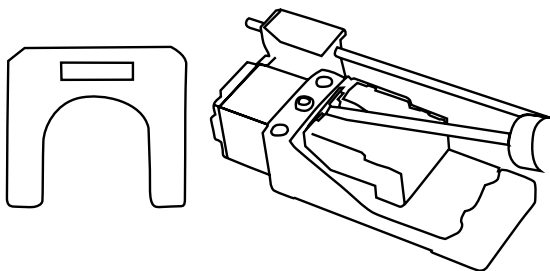
Steps:

1. Remove the gasket protecting the head carefully.
2. Unscrew the 4 screws that are securing the head to the body.
3. Turn the head to the correct direction.
4. Fasten all 4 screws to secure the head.
5. Reassemble the gasket as before.

NOTE!

Take care not to damage gaskets during the process.

A How to remove the lock sprint



Note: Items 3802095 (8168) and 3802096 (8169) are omnidirectional so the head should not be turned.

DIAGRAMS

OP: Operation force, RF: Release force, TS: Trigger speed OFF ON

Item: 3802090 (8111)
Operating diagram

 NC(1-2)
 NO(3-4)
 NC(1-2)
 NO(3-4)
 OP: 9.0N
 RF: 1.5N
 TS: 0.25m/s

Dimensional diagram

Item: 3802091 (8112)
Operating diagram

 NC(1-2)
 NO(3-4)
 NC(1-2)
 NO(3-4)
 OP: 9.0N
 RF: 1.5N
 TS: 0.25m/s

Dimensional diagram

Item: 3802092 (8104T)
Operating diagram

 NC(1-2)
 NO(3-4)
 NC(1-2)
 NO(3-4)
 OP: 6.0N
 RF: 0.5N
 TS: 1.3m/s

Dimensional diagram

Item: 3802093 (8108T)
Operating diagram

 NC(1-2)
 NO(3-4)
 NC(1-2)
 NO(3-4)
 OP: 6.0N
 RF: 0.5N
 TS: 1.3m/s

Dimensional diagram

Item: 3802094 (8107)
Operating diagram

 NC(1-2)
 NO(3-4)
 NC(1-2)
 NO(3-4)
 OP: 6.0N
 RF: 0.5N
 TS: 1.3m/s

Dimensional diagram

Item: 3802095 (8168)
Operating diagram

 NC(1-2)
 NO(3-4)
 NC(1-2)
 NO(3-4)
 OP: 0.9N
 RF: 0.04N
 TS: 1.3m/s

Dimensional diagram

Item: 3802096 (8169)
Operating diagram

 NC(1-2)
 NO(3-4)
 NC(1-2)
 NO(3-4)
 OP: 0.9N
 RF: 0.04N
 TS: 1.3m/s

Dimensional diagram

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