

NOVA22 DRML1 Load Monitoring Module

Disconnect all power before installing or removing this equipment. Verify all connections and replace all covers before turning on power. Failure to follow these instructions may result in death or serious injury.

INSTALLATION INSTRUCTIONS

- Remove the ID marker and input connector from the NOVA22 relay.
- Wire input and output as shown in the Wiring Diagram. Before wiring terminal 2/T1 pass the wire through the module hole. For recommended wire sizes and terminal torques see TABLE 2.
- Mount the module onto the relay as shown in steps 1 and 2.
- Proceed to configure the module:
 - Select the maximum load current (20 Amps or 50 Amps) and the alarm delay (0.1, 1 or 5 secs) using the parameter selector switch. **NOTE:** Parameter selector switch is updated at startup or if no input signal is present.
 - Turn on all power supplies.

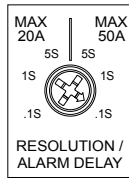


fig 1. Parameter selector switch

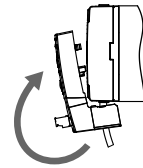
◆ Press TEACH-IN button (or apply external TEACH-IN input) for 3 seconds to store the nominal load current value. LED will blink Blue 3 times when TEACH process is complete.

◆ Module will start monitoring the system once TEACH-IN button has been released. Refer to TABLE 1 and Status Charts for detailed operation and status.

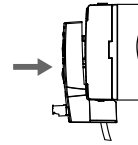
■ For module removal follow steps 3 and 4.

Module Mounting

STEP 1:
Align the module to the bottom of SSR

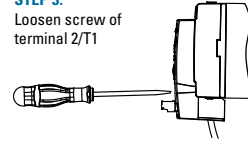


STEP 2:
Push to put into place as shown



Module Removal

STEP 3:
Loosen screw of terminal 2/T1



STEP 4:
Hold module and pull to remove

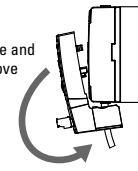


TABLE 1. LED Status

Status	LED Indicator	SSR Output	Alarm Output
No Power	Off	OFF	OFF
Power ON [brand new, no TEACH value]	Blinking Blue constantly	OFF	OFF
Power ON [TEACH value stored]	Blinking Blue 3 times	OFF	OFF
Power ON [TEACH value operative]	Blue	OFF	OFF
Input Control ON	Green	ON	OFF
ALARM - No Mains Voltage / Open Load	Red	OFF	ON
ALARM - Undercurrent	Blinking Red 1 time	ON	ON
ALARM - Overcurrent	Blinking Red 2 times	ON	ON
ALARM - SSR Short Circuit	Blinking Red constantly	ON	ON

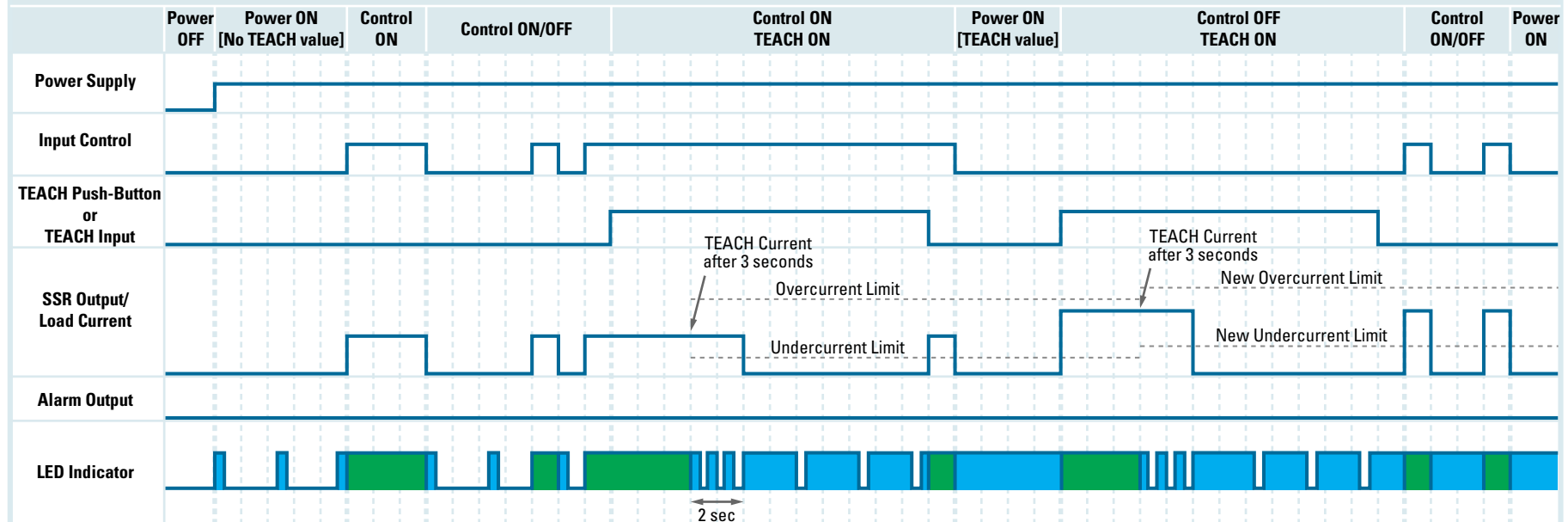
LED Color

Blue

Green

Red

Status Chart - Normal Operation



⚠ DANGER / DANGER / GEFARH / PELIGRO / PERICOLO / 危险

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

• Turn off power supply before working on this equipment.
Failure to follow these instructions will result in death or serious injury.

RISQUE D'ELECTROCUTION, D'EXPLOSION OU D'ARC ELECTRIQUE

• Coupez l'alimentation avant de travailler sur cet appareil.
Le non-respect de ces instructions provoquera la mort ou des blessures graves.

STROMSCHLAG-, EXPLOSIONS- ODER LICHTBOGENGEFAHR

• Vor dem Arbeiten an dem Gerät dessen Stromversorgung abschalten.
Die Nichtbeachtung dieser Anweisungen führt zu Tod oder schwerer Körperverletzung.

RIESGO DE ELECTROCUCIÓN, EXPLOSIÓN O ARCO ELÉCTRICO

• Desconecte toda alimentación antes de realizar el servicio.
Si no se siguen estas instrucciones provocará lesiones graves o incluso la muerte.

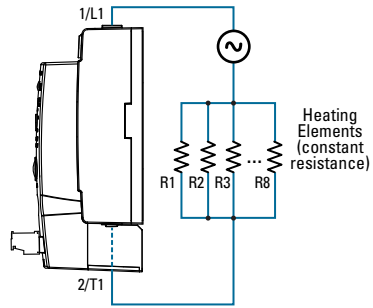
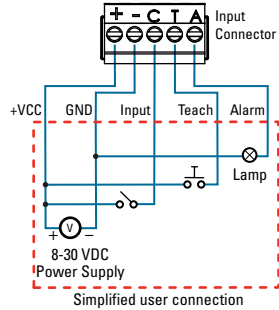
RISCHIO DI SCOSSA ELETTRICA, DI ESPLOSIONE O DI OFTALMIA DA FLASH

• Scollegare l'apparecchio dalla presa di corrente prima di qualsiasi intervento.
Il mancato rispetto di queste istruzioni provocherà morte o gravi infortuni.

存在电击、爆炸或电弧闪烁危险

• 在操作此设备之前请先关闭电源。
若不遵守这些说明，可能会导致严重的人身伤害甚至死亡。

WIRING DIAGRAM



Load Monitoring Module mounted on a NOVA22 SSR DR2260DxxV/W or PM2260DxxV

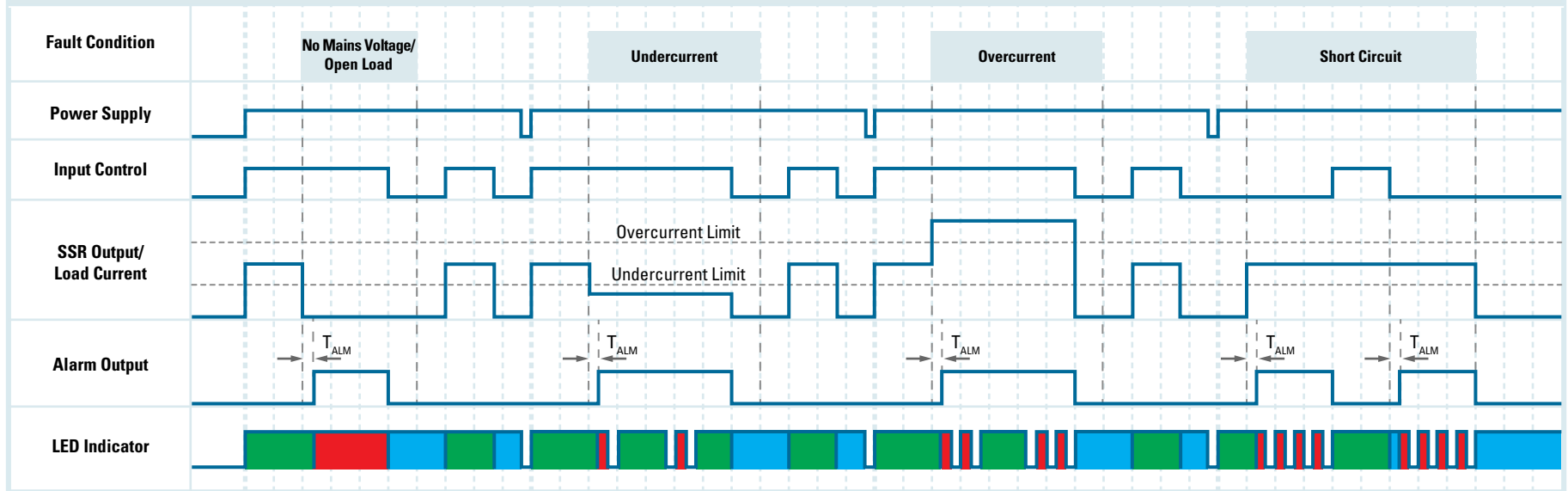
TABLE 2. Recommended Torque and Wire Sizes

Terminal	Max. Screw Torque [in-lb (Nm)]	Wire Size (Solid / Stranded)	Wire Pull-Out Strength (lb)[N]
Output	18-20 (2.0-2.2)	20 AWG (0.75 mm ²) [minimum]	25 [111]
		10 AWG (6 mm ²)	70 [310]
		8 AWG (10 mm ²) [maximum]	70 [310]
Input	1.6 (0.19)	28 AWG (0.09 mm ²) [minimum]	2.2 [9.8]
		14 AWG (2.5 mm ²) [maximum]	22 [98]

LED Color

- Blue
- Green
- Red

Status Chart - Fault Operation



T_{ALM} = Alarm Delay Time

⚠ WARNING / AVERTISSEMENT / WARNUNG / ADVERTENCIA / AVVERTENZA / 警告

RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE
 • The product's side panels may be hot, allow the product to cool before touching.
 • Follow proper mounting instructions including torque values.
 • Do not allow liquids or foreign objects to enter this product.
Failure to follow these instructions can result in serious injury, or equipment damage.

RISQUE DE DOMMAGE MATERIEL ET DE SURCHAUFFE DU BOITIER
 • Les panneaux latéraux du produit peuvent être chauds. Laissez le produit refroidir avant de le toucher.
 • Respecter les consignes de montage, et notamment les couples de serrage.
 • Ne pas laisser pénétrer de liquide ni de corps étrangers à l'intérieur du produit.
Le non-respect de cette directive peut entraîner, des lésions corporelles graves ou des dommages matériels.

GEFAHR VON MATERIALSCHÄDEN UND GEHÄUSEERHITZUNG
 • Die Seitenwände können heiß sein. Lassen Sie das Produkt abkühlen, bevor Sie es berühren.
 • Beachten Sie die Montageanweisungen.
 • Führen Sie keine Flüssigkeiten oder Fremdkörper in das Produkt ein.
Die Nichtbeachtung dieser Anweisung kann Körperverletzung oder Materialschäden zur Folge haben.

RIESGO DE DAÑOS MATERIALES Y DE SOBRECALENTAMIENTO DE LA UNIDAD
 • Los paneles laterales del producto pueden estar calientes. Esperar que el producto se enfríe antes de tocarlo.
 • Respetar las instrucciones de montaje, y en particular los pares de apretado.
 • No dejar que penetren líquidos o cuerpos extraños en el producto.
Si no se respetan estas precauciones pueden producirse graves lesiones, daños materiales.

RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO
 • I pannelli laterali dell'apparecchio possono scottare; lasciar quindi raffreddare il prodotto prima di toccarlo.
 • Seguire le istruzioni di montaggio corrette.
 • Non far entrare liquidi o oggetti estranei in questo apparecchio.
La mancata osservanza di questa precauzione può causare gravi rischi per l'incolumità personale o danni alle apparecchiature.

材料损坏和高温外壳的危险性
 • 产品的一侧面板可能很热，在其冷却前请不要触碰。
 • 遵照正确的安装说明，包括扭矩值。
 • 请勿让液体及其他异物进入本产品。
如不能正确执行这些操作说明，极有可能造成严重人体伤害或者设备的损坏。