

BEFORE USE

Thank you for choosing us. Before use, please check contents of the package you received as outlined below.

If you have any problems or questions with the product, please contact our sales office or representatives.

■ PACKAGE INCLUDES:

High-speed response multi power transducer(1)

■ MODEL NO.

Confirm Model No. marking on the product to be exactly what you ordered.

■ INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

The L53UF is programmable by using the PC Configurator Software. For detailed information on the PC configuration, refer to the PMCFG users manual.

Software and manuals are downloadable at our web site.

POINTS OF CAUTION**■ CONFORMITY WITH EU DIRECTIVES**

- This equipment is suitable for Pollution Degree 2, Measurement Category III (input, transient voltage: 6000V), II (output, transient voltage: 1500V) and Installation Category II (auxiliary power, transient voltage: 2500V). Reinforced insulation (signal input to auxiliary power input: 550V, output to auxiliary power input: 300V) and basic insulation (signal input to output: 550V) are maintained. Prior to installation, check that the insulation class of this unit satisfies the system requirements.
- The equipment must be mounted inside a panel
- Altitude up to 2000 meters.
- The equipment must be installed such that appropriate clearance and creepage distances are maintained to conform to CE requirements. Failure to observe these requirements may invalidate the CE conformance.
- The actual installation environments such as panel configurations, connected devices, connected wires, may affect the protection level of this unit when it is integrated in a panel system. The user may have to review the CE requirements in regard to the whole system and employ additional protective measures* to ensure the CE conformity.

* For example, installation of noise filters and clamp filters for the power source, input and output connected to the unit, etc.

■ AUXILIARY POWER SUPPLY RATING & OPERATIONAL RANGE

- Locate the auxiliary power supply rating marked on the product and confirm its operational range as indicated below:

100 – 240V AC rating: 85 – 264V AC, 47 – 66 Hz, < 10VA

110 – 240V DC rating: 99 – 264V DC, < 3W

■ GENERAL PRECAUTION

- Before you remove or mount the unit, turn off the power supply and input signal for safety.

■ ENVIRONMENT

- Indoor use.
- Do not install the unit where it is directly exposed to rain, water droplets or sunlight.
- When heavy dust or metal particles are present in the air, install the unit inside proper housing with sufficient ventilation.
- Do not install the unit where it is subjected to continuous vibration. Do not subject the unit to physical impact.
- Environmental temperature must be within -10 to +55°C (14 to 131°F) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.

■ WIRING

- Wiring to the unit must be conducted by qualified service personnel.
- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.

■ AND

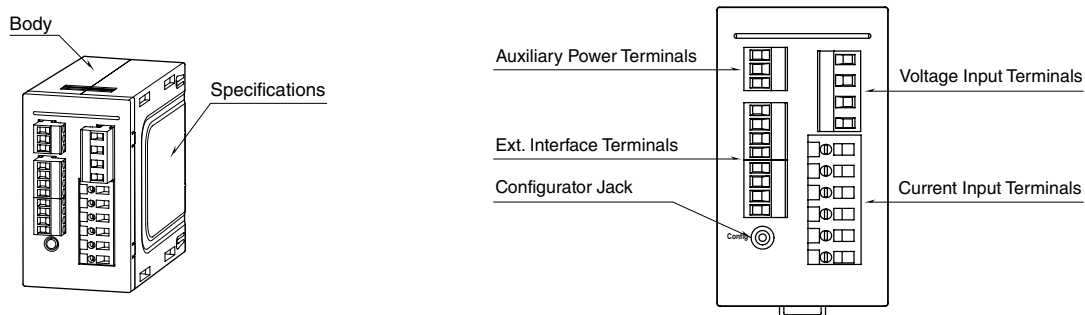
- The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

LIGHTNING SURGE PROTECTION

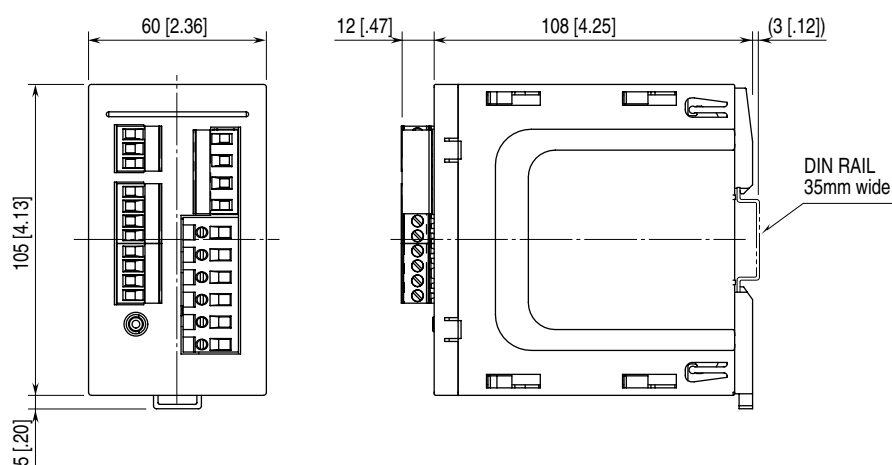
We offer a series of lightning surge protector for protection against induced lightning surges. Please contact us to choose appropriate models.

COMPONENT IDENTIFICATION

■ FRONT VIEW



EXTERNAL DIMENSIONS unit: mm [inch]



■ WIRING

• Current input

Applicable cable size: ≤ 2.4 mm dia., 0.5 to 3.5 mm²
Stripped length: 13 to 15 mm

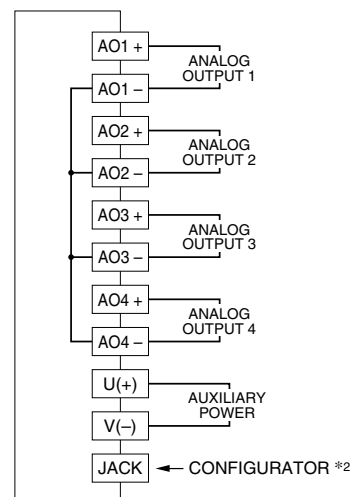
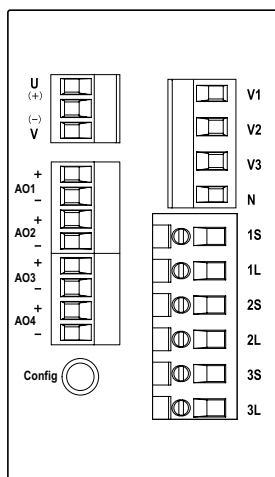
• Voltage input

Applicable cable size: ≤ 2.5 mm dia., 0.5 to 3.5 mm²
Stripped length: 7 to 8 mm

• Analog output, auxiliary power

Applicable cable size: ≤ 2.4 mm dia., 0.5 to 2.5 mm²
Stripped length: 7 to 8 mm

TERMINAL CONNECTIONS



System / Application	Terminal	System / Application	Terminal
Single phase / 2-wire		Three phase / 3-wire, unbalanced load	
Three phase / 3-wire, balanced load		Three phase / 4-wire, balanced load	
Single phase / 3-wire		Three phase / 4-wire, unbalanced load	

Note: For low voltage circuit, grounding is not required.