NU-PN1

PROFINET Compatible Network Unit

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		NU-PN1
Name		PROFINET Compatible Network Unit
Compatible network		PROFINET I/O communication
Ethernet Specifications	Compliant standards	IEEE802.3u (100BASE-TX)
	Transmission rate	100 Mbps (100BASE-TX)
	Transmission media	STP cable or Category 5 or higher UTP cable
	Maximum cable length	100 m
	Max. number of connection stages	2
PROFINET	Compatible functions	Cyclic communication (Data I/O communication) Acyclic communication (Record data communication)
	Number of connectable controllers	1
	Update Time	2 to 512 ms
	Version of GSDML	Version 2.3
	Conformance class	Complies with conformance class A
	Conformance test version	Complies with version 2.2.4
	Applicable protocols	LLDP, DCP
Sensor connection	Connectable sensors	Sensors with N-bus support *1
	Number of connectable units	16 units max. (varies depending on the sensors to connect)
	Power supply	Power received from the NU-PN1 via the sensor connector
	Allowable passing current	Overall 1200 mA or less *2
	Power during PoE power receiving	Supply voltage: 24V±10%, supply current: 360 mA or less *3*4
Power voltage		24 VDC ±10%, ripple (p-p) 10% or less (with power supply connector) 48 VDC (Max. 57 VDC) (During PoE power receiving)
Power consumption		1500 mW or less (at 24 V 60 mA max) *5
Environmental resistance	Pollution degree	2
	Ambient temperature	-20 to 55°C (no freezing)
	Relative humidity	35 to 85% RH (no condensation)
	Vibration resistance	10 to 55 Hz compound amplitude 1.5 mm, 2 hours each in X, Y, Z directions
Material		Main unit case: Polycarbonate Power supply connector: Polyamide (plug), PBT (socket)
Weight		Approx. 80 g

*1 "N-bus" is the name of KEYENCE's wiring-saving system for sensors.
*2 Indicates the current that can be supplied to the NU-PN1 and to the sensor units linked to the NU-PN1.
*3 Power which can be supplied to sensor when using the PoE power receiving function.

*4 Varies according to the working ambient temperature.
(-20 to 45°C: 360mA or less, 45 to 50°C: 260mA or less, 50 to 55°C: 140mA or less)
*5 Does not include power supplied to connected sensor.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

nu-pn1_dimension_01.gif