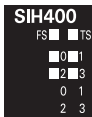
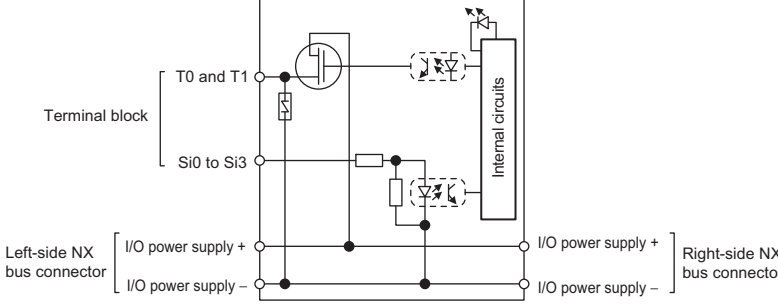
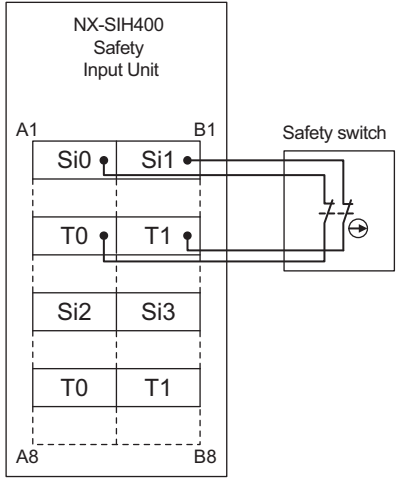


Item	Specification
Weight	This is the weight of the Unit.
Circuit layout	This is the internal circuits of the Unit.
Terminal connection diagram	This is the connection diagram between the Unit and external devices.
Installation orientation and restrictions	This is the installation orientation of the Slave Terminal that includes this Unit. If the installation orientation imposes any restrictions on the specifications, those restrictions are also described.
Protective functions	These are the protective functions that are supported by the Unit.

Safety Input Units

● NX-SIH400

Unit name	Safety Input Unit
Model	NX-SIH400
Number of safety input points	4 points
Number of test output points	2 points
Internal I/O common	PNP (sinking inputs)
Rated input voltage	24 VDC (20.4 to 28.8 VDC)
OMRON Special Safety Input Devices	Can be connected.
Number of safety slave connections	1
I/O refreshing method	Free-Run refreshing
External connection terminals	Screwless clamping terminal block (8 terminals)
Indicators	TS indicator, FS indicator, input indicators (yellow), and input error indicators (red) 
Safety input current	4.5 mA typical
Safety input ON voltage	11 VDC min.
Safety input OFF voltage/OFF current	5 VDC max., 1 mA max.
Test output type	Sourcing outputs (PNP)
Test output rated current	25 mA max.
Test output ON residual voltage	1.2 V max. (Between IOV and all output terminals)
Test output leakage current	0.1 mA max.
Dimensions	12 × 100 × 71 mm (W × H × D)
Isolation method	Photocoupler isolation
Insulation resistance	20 MΩ min. between isolated circuits (at 100 VDC)
Dielectric strength	510 VAC for 1 min between isolated circuits, leakage current: 5 mA max.
I/O power supply method	Power supplied from the NX bus
Current capacity of I/O power supply terminals	No applicable terminals.
NX Unit power consumption	0.70 W max.
Current consumption from I/O power supply	20 mA max.
Weight	70 g max.

<p>Circuit layout</p>	 <p>Terminal block</p> <p>T0 and T1</p> <p>Si0 to Si3</p> <p>Left-side NX bus connector</p> <p>I/O power supply +</p> <p>I/O power supply -</p> <p>Internal circuits</p> <p>I/O power supply +</p> <p>I/O power supply -</p> <p>Right-side NX bus connector</p>
<p>Terminal connection diagram</p>	<p>Si0 to Si3: Safety input terminals</p> <p>T0 and T1: Test output terminals</p>  <p>NX-SIH400 Safety Input Unit</p> <p>A1 B1</p> <p>Si0 Si1</p> <p>T0 T1</p> <p>Si2 Si3</p> <p>T0 T1</p> <p>A8 B8</p> <p>Safety switch</p> <p>Refer to 3-3-1 <i>Safety Input Functions</i> on page 3-11 for details.</p>
<p>Installation orientation and restrictions</p>	<p>Installation orientation: 6 possible orientations</p> <p>Restrictions: Maximum ambient temperature is 50°C for any orientation other than upright installation.</p>
<p>Protective functions</p>	<p>Overvoltage protection circuit and short detection (test outputs)</p>