

Table 3-2 - Input Modules High Density I/O

Functions/Module	IEC 61508 Certified Configuration	Conditions
Trusted Digital Inputs T8402, Dual, 24V DC T8402C, Dual, 24V DC	Internal 1oo2D (1oo2 implemented in a single module)	De-energize to trip: certified up to SIL 3. Energize to trip: certified only for applications that fulfill the requirements under Energize to trip configurations on page 42 . Time-limited operation in degraded mode
Trusted Digital Inputs T8424, Triplicated, 120V AC T8424C, Triplicated, 120V AC	Internal 2oo3 (2oo3 implemented in a single module)	De-energize to trip: certified up to SIL 3. Energize to trip: certified only for applications that fulfill the requirements under Energize to trip configurations on page 42 .
Trusted Analog Inputs T8431, Triplicated T8431C Triplicated T8433, Triplicated, isolated T8433C Triplicated Isolated	Internal 2oo3 (2oo3 implemented in a single module)	Within the manufactures specified safety accuracy limits. The safety state of the analog input has to be defined to 0 mA/0 V Certified up to SIL 3.
Trusted Analog Inputs T8432, Dual T8432C, Dual	Internal 1oo2D (1oo2 implemented in a single module)	Within the manufactures specified safety accuracy limits. The safety state of the analog input has to be defined to 0 mA/0 V Certified: up to SIL 3 Time-limited operation in degraded mode.

Table 3-3 - Output Modules High-Density I/O

Functions/Module	IEC 61508 Certified Configuration	Conditions
Digital Outputs T8451, Triplicated 24V DC T8451C, Triplicated 24V DC T8461, Triplicated 48V DC T8461C, Triplicated 48V DC	Internal 2oo3 (2oo3 implemented in a single module)	De-energize to trip: certified up to SIL 3. Energize to trip: certified only for applications that fulfill the requirements under Energize to trip configurations on page 42 . May be used in single module or active/standby configurations.
Digital Outputs T8471, Triplicated 120V DC T8471C, Triplicated 120V DC	Internal 2oo3 (2oo3 implemented in a single module)	De-energize to trip: certified up to SIL 3. Energize to trip: certified only applications where the Proof Test frequency >> frequency of Demands and that fulfill the requirements under Energize to trip configurations on page 42 . May be used in single module or active/standby configurations.
Digital Outputs T8472, Triplicated 120V AC T8472C, Triplicated 120V AC	Internal 2oo3 (2oo3 implemented in a single module)	De-energize to trip: certified up to SIL 3. Energize to trip: certified only for applications that fulfill the requirements under Energize to trip configurations on page 42 . May be used in single module or active/standby configurations.
Analog Outputs T8480 Analog Output 4-20 mA T8480C Analog Output 4-20 mA	Not safety-related but interference free	Certified as non-interfering and can be used for non-safety-critical output devices.

Table 3-4 - Multi-purpose Modules, High-Density I/O

Functions/Module	IEC 61508 Certified Configuration	Conditions
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