

SDO Abort Codes

As reference information, the following table lists the SDO abort codes for EtherCAT communications. The abort codes that are used in actual communications are specified by the slaves. Refer to the slave manuals when programming communications.

Value	Meaning
16#05030000	Toggle bit not changed
16#05040000	SDO protocol timeout
16#05040001	Client/Server command specifier not valid or unknown
16#05040005	Out of memory
16#06010000	Unsupported access to an object
16#06010001	Attempt to read to a write only object
16#06010002	Attempt to write to a read only object
16#06020000	The object does not exist in the object directory
16#06040041	The object cannot be mapped into the PDO
16#06040042	The number and length of the objects to be mapped would exceed the PDO length
16#06040043	General parameter incompatibility reason
16#06040047	General internal incompatibility in the device
16#06060000	Access failed due to a hardware error
16#06070010	Data type does not match, length of service parameter does not match
16#06070012	Data type does not match, length of service parameter too high
16#06070013	Data type does not match, length of service parameter too low
16#06090011	Subindex does not exist
16#06090030	Value range of parameter exceeded (only for write access)

16#06090031	Value of parameter written too high
16#06090032	Value of parameter written too low
16#06090036	Maximum value is less than minimum value
16#08000000	General error
16#08000020	Data cannot be transferred or stored to the application
16#08000021	Data cannot be transferred or stored to the application because of local control *1
16#08000022	Data cannot be transferred or stored to the application because of the present device state
16#08000023	Object dictionary dynamic generation failed or no object dictionary is present

*1 This is internal status that is unique to the slave.

Source: EtherCAT Specification Part 6 Application Layer Protocol Specification.

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