

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Installation Instructions

6DL1193-6TP00-0DH1

Siemens official documentation for the exact article number.

Source: 6DL1193-6TP00-0DH1.pdf

Selected official Siemens pages follow this cover.

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

WARNING

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

Trademarks

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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

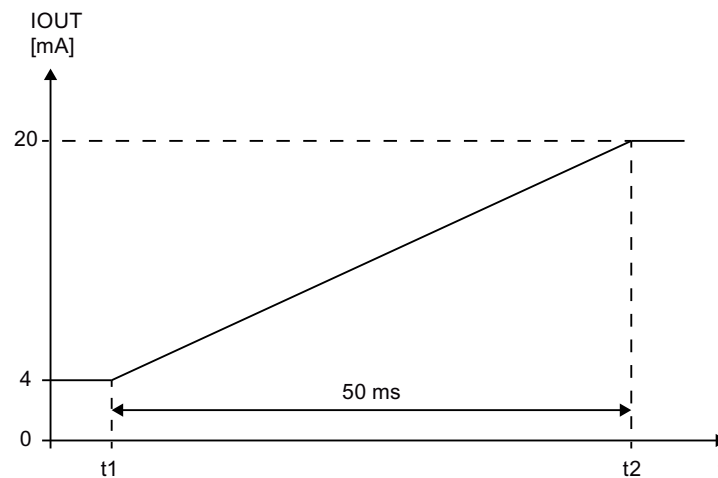


Figure 4-2 Example diagram of settling time with HART communication

Diagnostics, Missing supply voltage L+

Enabling of the diagnostics for missing or insufficient supply voltage L+.

IO redundancy

You can configure two identical modules redundantly. To do so, plug both modules into a redundant terminal block side by side. You can find additional information on mounting modules in an IO redundancy configuration in the ET 200SP HA System Manual, section "Installing", "Installing terminal block".

In IO redundancy mode, the left module is the master and the right module is the slave. In this case, the HART communication can take place exclusively via one of the two redundant channels.

In error-free redundant operation, the channels of the master and slave each output half of the specified current.

In the event of an error, the full current is output via the remaining channel of the partner module. As soon as the error has been corrected, each of the two redundant channels outputs half of the current again.

In error-free I/O redundancy mode, the HART communication can take place exclusively via one of the two redundant channels. The HART interface of all channels is associated with the master by default. If a module fails or a channel failure is detected, the HART interface of the affected channels changes to the partner module. Once an error has been corrected, there is no changeover of the HART interface of the current-carrying channels involved.

Diagnostics, Wire break

Enabling of the diagnostics if the I/O module does not detect any current flow.

Monitoring is effective from an output current of $\geq 240 \mu\text{A}$.

If the output current drops below $240 \mu\text{A}$ when the "Wire break" diagnostics message is pending, the diagnostic message cannot be canceled until the output current is set above $240 \mu\text{A}$ again and the error has been eliminated.

Article number	6DL1135-6TF00-0PH1
- Channel status display - for channel diagnostics - for module diagnostics	Yes; Green LED Yes; Red LED Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
- between the channels - between the channels and backplane bus - Between the channels and load voltage L+	No Yes Yes
Isolation	
Isolation tested with	1 500 V DC/1 min, type test
Ambient conditions	
Ambient temperature during operation	
- horizontal installation, min. - horizontal installation, max. - vertical installation, min. - vertical installation, max.	-40 °C 70 °C -40 °C 60 °C
Dimensions	
Width	22.5 mm
Height	115 mm
Depth	138 mm
Weights	
Weight, approx.	160 g

Cycle time

The cycle time describes the time slice in which new process values are output.

The cycle time is the sum of the basic cycle times and the channel processing times (independent of parameter assignment).

	Without HART protocol	With HART protocol and multiHART	With HART protocol and 8 HART variables
Basic cycle time	4.7 ms	4.9 ms	7.8 ms
Channel processing time	0.75 ms	0.875 ms	1.5 ms

Cycle time = Basic cycle time + n × Channel processing time

Redundancy failover time

In error-free IO redundancy mode, both I/O modules output half the specified current. If one I/O module fails, failover to the partner module occurs and the partner module outputs the full current.

The maximum redundancy failover time of the I/O module is 20 ms.