

Control for Motorized Festoon Systems

Sinamics S120 with bus interface to crane PLC Siemens S7-300/400

9 Fault diagnosis



WARNING!

Risk of injury due to improper fault clearance!

Improper fault clearance may cause heavy injuries or damage to property.

Therefore:

- In case of disturbance contact the manufacturer.
- Fault clearance must only be carried out by workers of the manufacturer or by personnel authorized by the manufacturer.



WARNING!

System damage from continuation of operation!

- Damage of buffers
- Damage of tooth-belts
- Possible injury from falling objects!

Therefore:

All faults must be analyzed before remedying the problem.



WARNING!

Death due to electric shock!

Work on electrical systems or production equipment may only be performed by specialized electricians or persons under the supervision and direction of an electrician in accordance with electrical rules (qualified specialists).

9.1 Procedure for faults or alarms



WARNING!

Severe system damage from continuation of operation!

In case of any fault of a drive unit of a festoon system, it is required to immediately **restrict the speed of the crane trolley to a max. of 50% and to less than 120 m/min** through the superior control/crane control and to visualize the fault in the CMS. Further crane operation in this emergency mode is only allowed temporary for max. 1 shift until the completion of the ship loading/unloading cycle. The fault has to be analyzed followed by a visual inspection of all relevant parts. Conductix-Wampfler has to be informed in writing without delay. After corrective actions as service or repair, the fault reset must only be given by authorized service staff.

It is recommended to position the reset button near the storage of the festoon system.

A fault message (**Fxxx**) at a frequency inverter can be reset after the fault analysis and fault elimination by the control signal "reset fault".

During operation the frequency inverter can generate sporadic alarm signals (**Axxx**), on the display. These are required for subsequent processing within the inverter program and do not have any influence on the operation of the system and can therefore be ignored