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## The X-MIO 7/6 01 Overspeed Trip Module Completes the FlexSILon TMC Solution

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All control, regulation, and monitoring functions for safe turbo operations are now unified in a single system, thus increasing functional safety and flexibility. Thanks to the quick reaction time of the HIMax overspeed protection module of under 20 milliseconds, the plant operator has also added benefits when purchasing turbine components.

### Part Numbers

- 98 5010238: X-MIO 7/6 over-speed trip module (3 counter, 4 digital input, 5 digital output, 1 auxiliary contact, SIL 3)

### Connector Boards:

- 98 5220179: X-CB 018 02
- 98 5220180: X-CB 018 04
- 98 5220181: X-CB 018 06
- 98 5220182: X-CB 018 07

### Benefits

#### Technical Benefits

- Non-reactive and independent of the HIMax CPU
- Module has an individual operating system
- Reaction time of well under 20 milliseconds
- Connector boards for dual or triple redundancy
- Parameter setting using the SILworX engineering tool
- Complete HIMax diagnostic functionality available

#### Cost Benefits

- Engineering with reduced expense
- Less space needed in the switchgear cabinet and storage
- Comprehensible wiring
- Enables savings when purchasing turbine components

#### Safety Benefits

- A unified communication system less prone to error

**Flexible Overspeed Trip Solutions for Customized Availability**

Mono, double, or triple redundancy? Appropriate connector boards allow for the implementation of precisely the right solutions needed for applications governed by API 670. Two alternative wiring concepts further increase flexibility.

**1.1 Screw terminals**



**1.2 Redundant screw terminals**



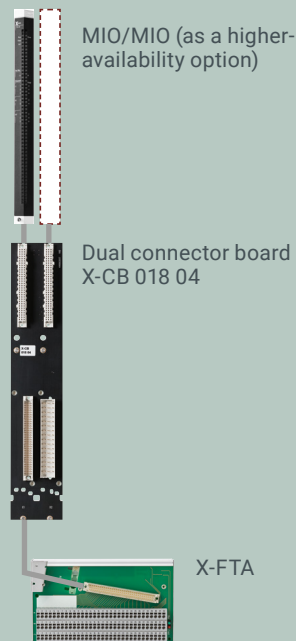
**Engineering Tool**

- SILworXV5.x

**Hardware Features**

- Mounted on the HIMax baseplate
- Redundant operation possible
- 3 safety related speed inputs (counter, SIL 3)
- 4 digital inputs
- 5 digital outputs, 3A, with freely programmable user-specific test functions
- 1 auxiliary contact for alarm

**2.1 System cable**



**2.2 Redundant system cable connection**



**Safety System**

- Nonstop safety system



**Standards/Certificates**

- Applications can be implemented according to API 670/VGB R103M
- SIL 3 according IEC 61508