HIMATRIX F1 DI 16 01

Product Data Sheet

HIMatrix F1 DI 1601 SILworX

Safety digital input module

SAFETY DIGITAL INPUTS	PULSED TEST OUTPUTS	NOMINAL SUPPLY	MAXIMUM INPUT CURRENT
16; non-galvanically isolated	**4; not safety outputs**	**24 V DC; –15% / +20%**	**0.8 A**

HIMA HIMatrix F1 DI 1601 SILworX is a compact remote input unit for safety-related digital signals. The F1 DI 16 01 hardware provides sixteen digital inputs and exchanges the resulting input data with a compatible HIMatrix controller over the safety-related network.

01 TECHNICAL DATA

Safety digital inputs	16; non-galvanically isolated
Pulsed test outputs	4; not safety outputs
Nominal supply	24 V DC; –15% / +20%
Maximum input current	0.8 A
External supply fuse	10 A, time-lag
Ethernet interfaces	2 × RJ45; integrated switch
Ethernet rate	10/100BaseT; 100 Mbit/s operation
Response time	At least 20 ms
Input high level	15–30 V DC; at least 2 mA at 15 V
Input low level	Maximum 5 V DC; maximum 1.5 mA

HIMA F1 DI 16 01 Manual HI 800 153 E Rev. 1.01; safety, connection and product data sections.

02 ADDITIONAL PRODUCT DATA

Typical switching point	7.5 V
Input switching time	250 µs
Test-output voltage	At least L+ minus 4 V
Operating temperature	0 to +60 °C
Enclosure protection	IP20

03 PRODUCT FUNCTION

Four pulsed outputs provide line-control signals for detecting wiring faults on suitable input circuits; these outputs are not safety actuator outputs. Two Ethernet ports with an integrated switch support the network connection, while the 24 V DC-powered unit monitors its input and module status.

04 SYSTEM COMPATIBILITY

Use the four pulsed outputs only for the documented line-control arrangement. Match pulse-channel assignments and timing to each connected input circuit; a pulsed supply output must not be assigned as a safety-related actuator output.

05 REFERENCE

HIMA F1 DI 16 01 Manual HI 800 153 E Rev. 1.01; safety, connection and product data sections.

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**