



Main

Range of product	Preventa Safety automation
Product or component type	Preventa safety remote input module
Safety module name	XPSMF1
Safety module application	Extension of I/O capacity
Safety use category	Category 4 maximum conforming to EN 954-1 Performance level e conforming to EN/ISO 13849-1 SIL 3 conforming to EN/IEC 61508
Function of module	Monitoring safety detection discrete input Monitoring safety dialogue discrete input Monitoring short-circuit and line break remote line control output
[Us] rated supply voltage	24 V DC (- 15...20 %)
Supply	SELV or PELV conforming to EN/IEC 60950
Discrete input number	16, not isolated
Number of outputs	4 not isolated for line control outputs
Structure type	10BASE-T/100BASE-TX

Complementary

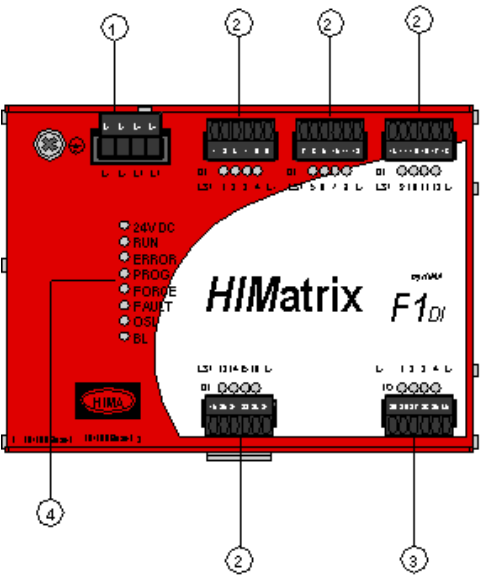
Response time	Depending on size of application
Voltage state 0 guaranteed	<= 5 V for discrete input
Voltage state1 guaranteed	>= 15 V for discrete input
Current state 0 guaranteed	1...1.5 mA, discrete input
Current state 1 guaranteed	>= 2 mA, discrete input
Discrete input voltage	19.2 V
Discrete input current	40 mA
Input protection type	Protected against short-circuit
Output voltage	20 V line control outputs
Nominal output current	60 mA for line control outputs
Switching voltage	7.5 V for discrete input
Switching time	250 µs for discrete input
Communication port protocol	Safe Ethernet with 2 RJ45 port(s), transmission rate: 100 Mbps, 10 Mbps, medium: dual twisted pair cable, category 5D or better
Exchange mode	Half duplex, full duplex, autonegotiation
Number of terminal blocks	1 for discrete output 1 for power supply 4 for discrete input
Current consumption	0.8 A at 24 V DC on power supply
Mounting support	35 mm symmetrical DIN rail
Depth	66.5 mm
Height	109 mm
Width	152 mm
Product weight	0.7 kg

Environment

IP degree of protection	IP20
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C conforming to EN 61131-2

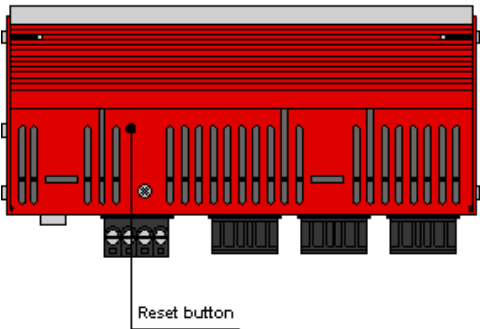
Housing Elements

Front View

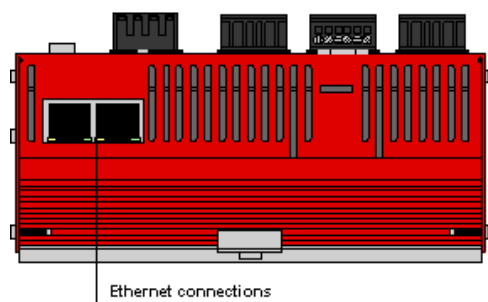


No.	Description
1	Power supply input
2	Digital inputs
3	Pulsed outputs
4	Indicators

Top View

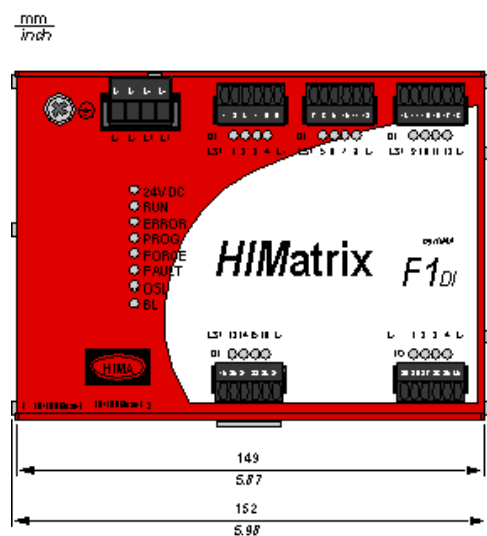


Bottom View

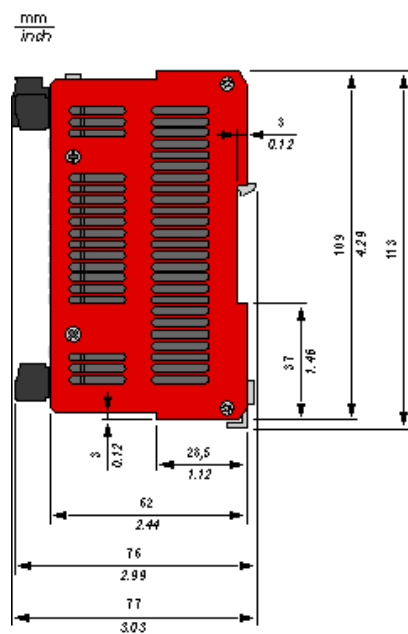


Dimensions

Front View

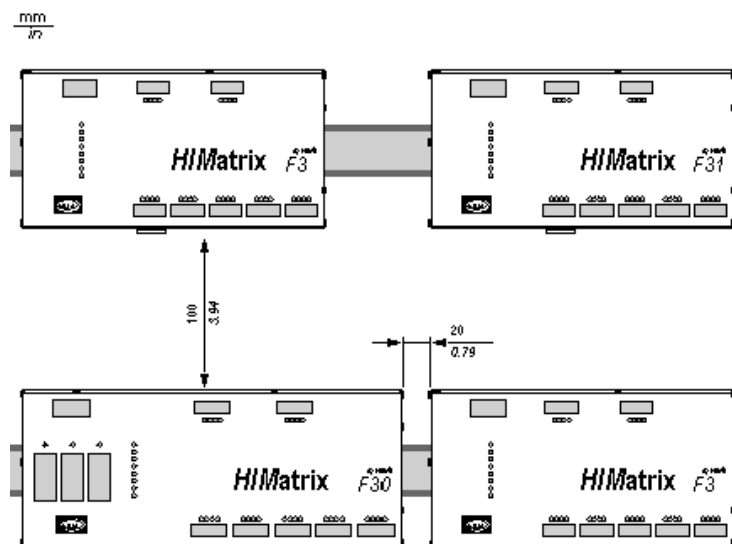


Side View

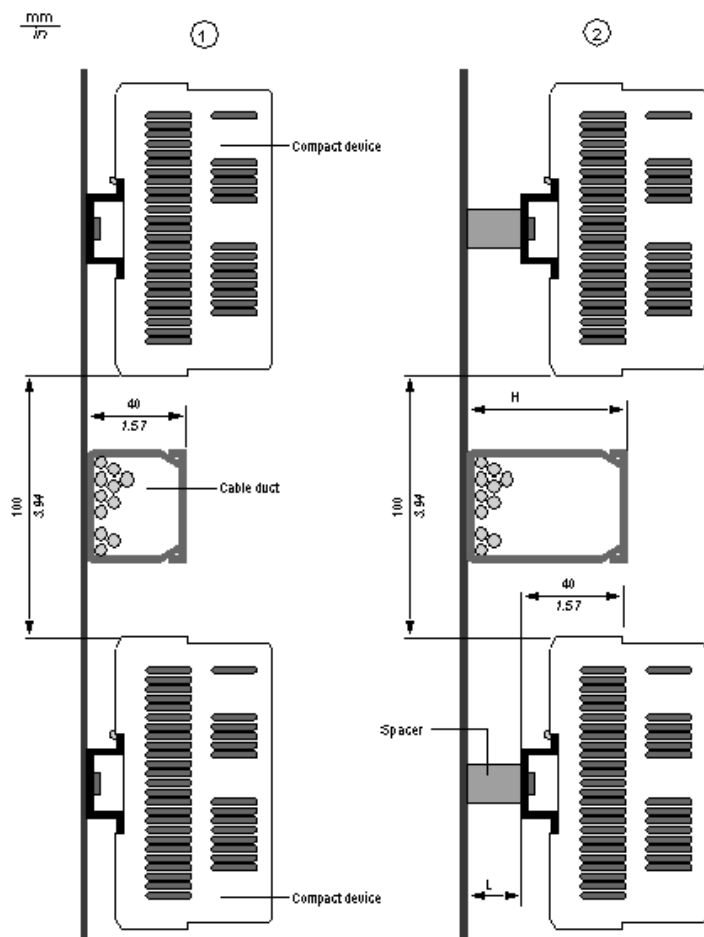


Mounting

Minimum Clearances



Air Circulation



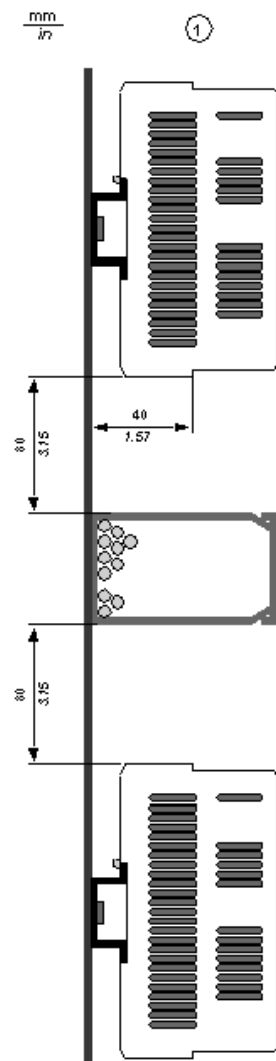
No.	Description
1	The height of the cable ducts is less than 40 mm / 1.57 in.
2	The height of the cable ducts is greater than 40 mm / 1.57 in.

$L = H - 40 \text{ mm} / 1.57 \text{ in.}$

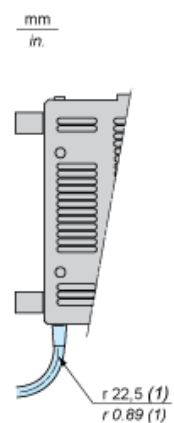
L = length of the spacer

H = height of the cable duct

Minimum clearance when $H > 40 \text{ mm} / 1.57 \text{ in.}$ and no spacer



Mounting Precautions Relating to RJ45 Connector



(1) minimum value