



Main

Range of product	Preventa Safety automation
Product or component type	Preventa safety remote mixed I/O module
Safety module name	XPSMF3
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 actuators discrete input Monitoring safety actuators discrete output Monitoring safety detection discrete input Monitoring safety dialogue discrete input Monitoring safety dialogue discrete output Monitoring short-circuit and line break line control outputs
[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	2 not isolated for line control outputs
Discrete output number	16, not isolated
Structure type	10BASE-T/100BASE-TX

Complementary

Response time	Depending on size of application
Associated fuse rating	16 A, slow-blow
Voltage state 0 guaranteed	≤ 5 V for discrete input
Voltage state 1 guaranteed	$15 \dots < 30$ V for discrete input
Current state 0 guaranteed	$1 \dots 1.5$ mA, discrete input
Current state 1 guaranteed	< 2 mA, discrete input
Discrete input voltage	20 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 μ s
Discrete output voltage	24 V DC
Output voltage tolerance	± 3 %
Discrete output current	≤ 9 A (all channels) > 10 mA at 60 °C (channels 1 to 3, 5 to 7, 4 and 8) 1 A at 60 °C (channels 1 to 3, 5 to 7, 4 and 8) 2 A at 40 °C (channels 1 to 3, 5 to 7, 4 and 8)
Inductive load	500 mH for discrete output
Tungsten load	25 W for discrete output
Line resistance	≤ 5 kOhm for discrete output
Minimum load	2 mA per channel
Leakage current	≤ 1 mA, at 2 V at state 0 for discrete output
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

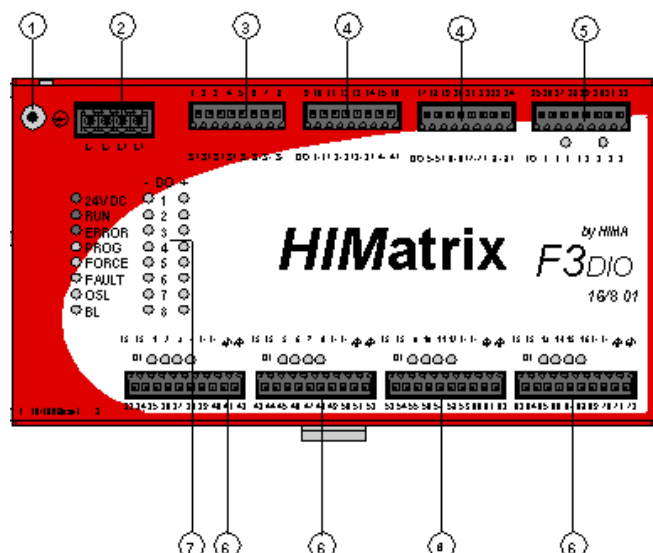
Number of terminal blocks	1 for line control outputs 1 for power supply 3 for discrete output 4 for discrete input
Current consumption	14 A at 24 V DC on power supply
Mounting support	35 mm symmetrical DIN rail
Depth	86.5 mm
Height	109 mm
Width	205 mm
Product weight	1.3 kg

Environment

IP degree of protection	IP20
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C

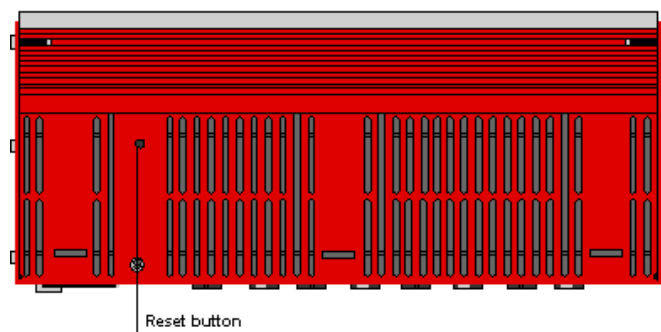
Housing Elements

Front View

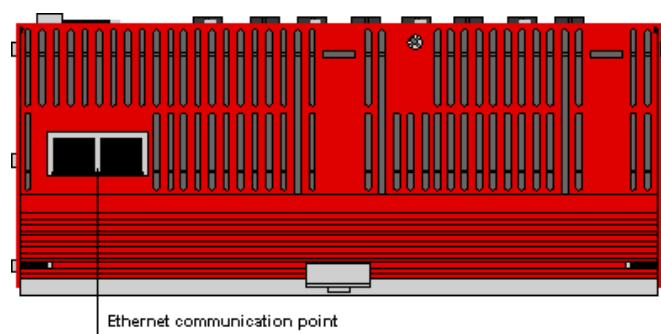


No.	Description
1	Earthing connection point
2	Power supply input
3	Reference poles
4	Digital outputs
5	Pulsed output terminals
6	Digital inputs
7	Indicators

Top View



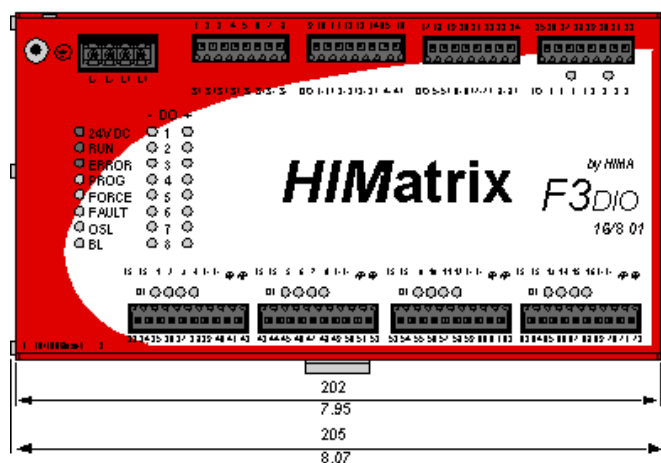
Bottom View



Dimensions

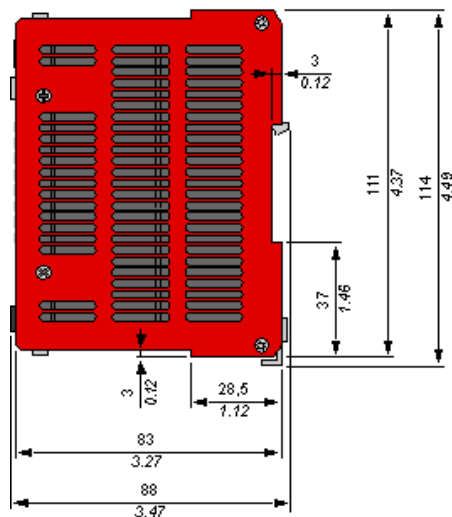
Front View

mm
inch



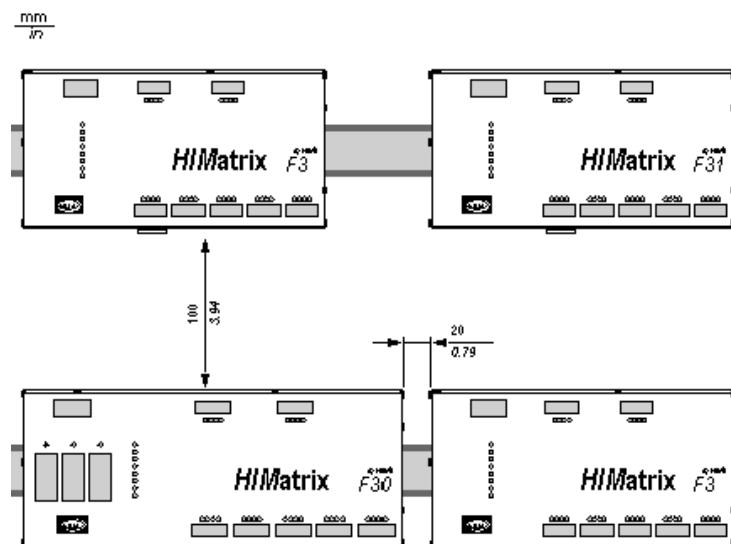
Side View

mm
inch

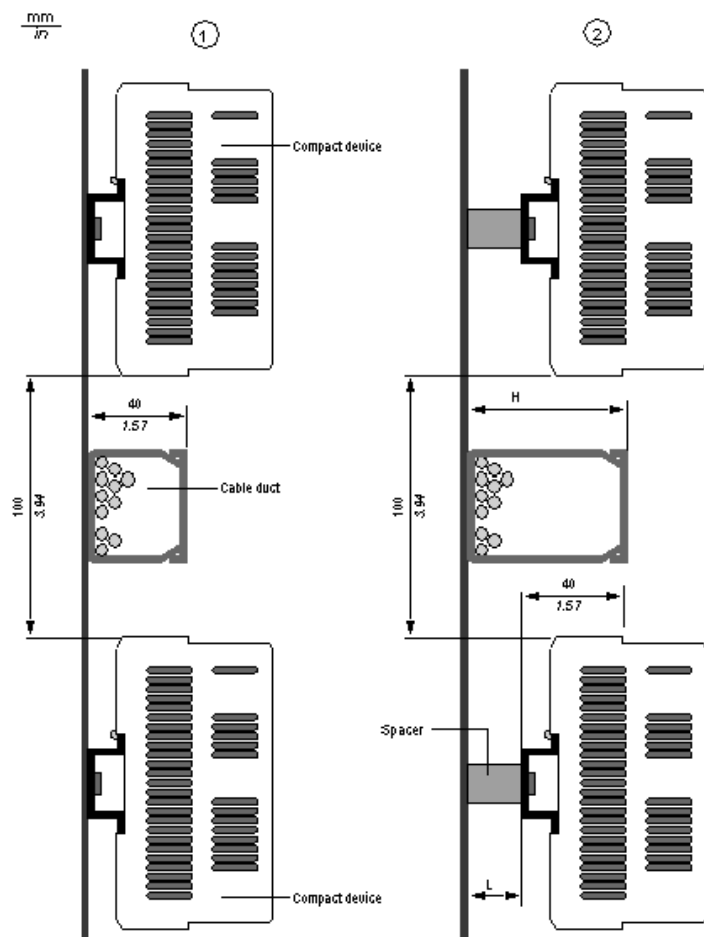


Mounting

Minimum Clearances



Air Circulation



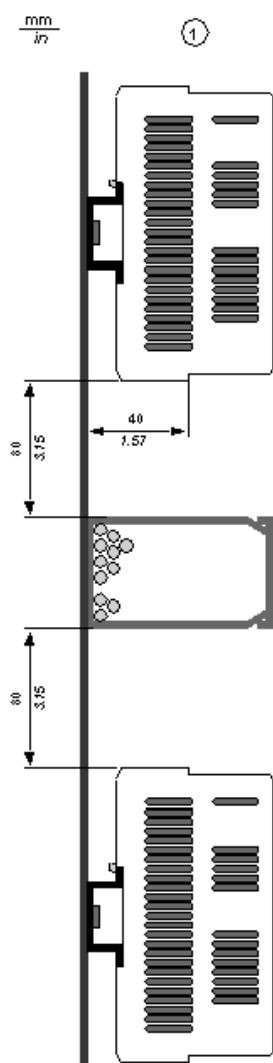
No.	Description
1	The height of the cable ducts is less than 40 mm / 1.57 in.
2	The height of the cable ducts is greater than 40 mm / 1.57 in.

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

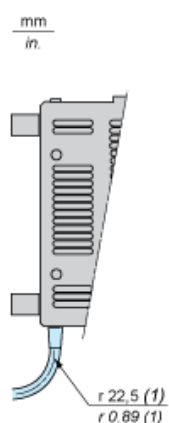
L = length of the spacer

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