



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	8, not isolated
Number of outputs	2 not isolated for line control outputs
Discrete output number	10, not isolated
Structure type	10BASE-T/100BASE-TX

Complementary

Response time	Depending on size of application
Associated fuse rating	10 A, slow-blow
Voltage state 0 guaranteed	<= 5 V for discrete input
Voltage state 1 guaranteed	15...< 30 V for discrete input
Current state 0 guaranteed	1.25...1.5 mA, discrete input
Current state 1 guaranteed	<= 2 mA, discrete input
Discrete input voltage	20 V
Discrete input current	100 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Discrete output voltage	24 V DC
Output voltage tolerance	+/- 2 %
Discrete output current	<= 7 A (all channels) 1 A at 60 °C (channels 1 and 2) 1 A at 60 °C (channels 4 and 8) 2 A at 40 °C (channels 4 and 8) 0.5 A at 60 °C (channels 1 to 3 and 5 to 7)
Inductive load	500 mH for discrete output
Tungsten load	10 W, channels 1 to 3 and 5 to 7 for discrete output 25 W, channels 1 and 2 for discrete output 25 W, channels 4 and 8 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 power supply 2 for discrete input 2 for discrete output 2 for line control outputs
Current consumption	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	1 kg

Environment

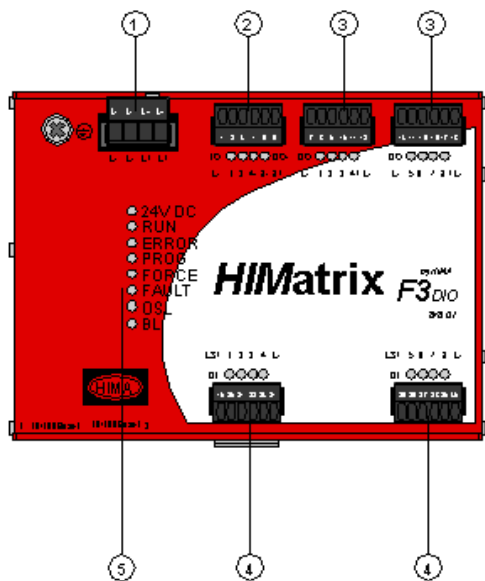
IP degree of protection	IP20
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C

Contractual warranty

Warranty period	18 months
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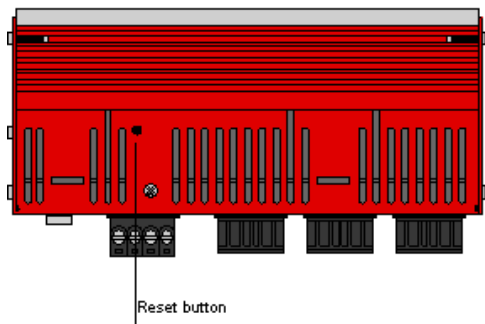
Housing Elements

Front View

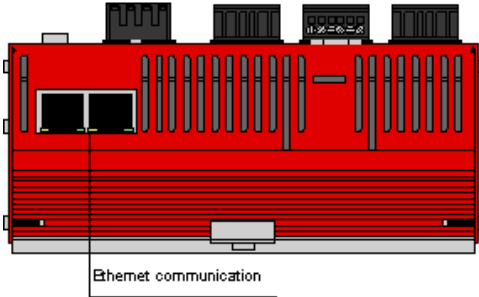


No.	Description
1	power supply input
2	pulsed outputs
3	digital outputs
4	digital inputs
5	Indicators

Top View

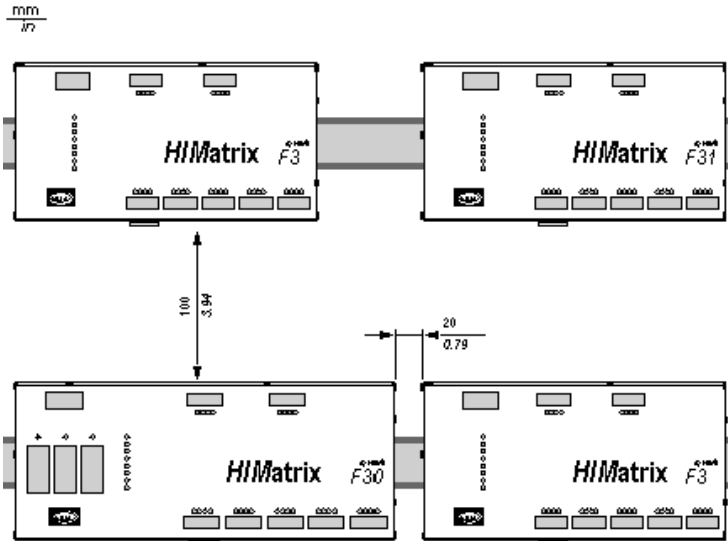


Bottom View

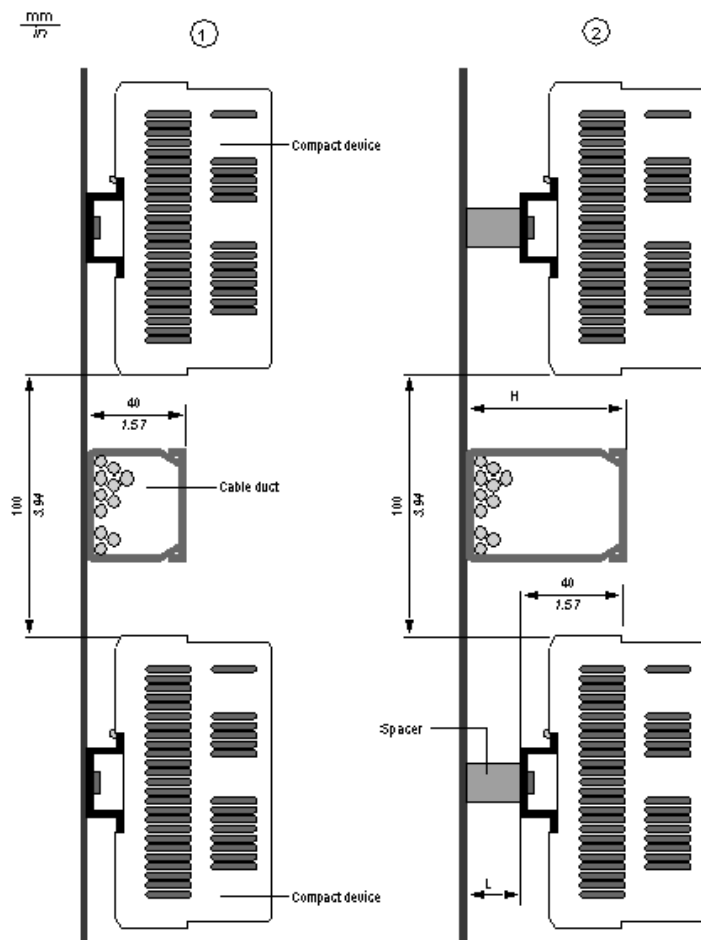


Mounting

Minimum Clearances



Air Circulation



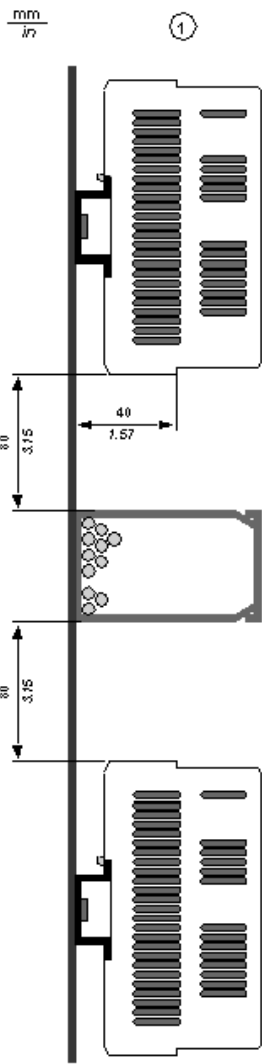
No.	Description
1	The height of the cable ducts is less than 40 mm / 1.57 in.
2	The height of the cable ducts is greater than 40 mm / 1.57 in.

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

L = length of the spacer

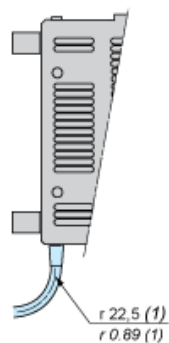
H = height of the cable duct

Minimum clearance when H > 40 mm/1.57 in. and no spacer



Mounting Precautions Relating to RJ45 Connector

$\frac{\text{mm}}{\text{in.}}$



(1) minimum value