MM 9474-ET(G)

Intrinsically safe Ethernet module - Zener barrier

Product designation:
Ethernet LAN interfaces are equipped
with RJ45 connectors.
Grounding wires are connected to screw terminals - terminals
1-4/13-16 and to a terminal designed
for DIN rail mounting.

In Ex installations, two independent grounding connections
are required. This is a standard and mandatory requirement
for every device with a Zener barrier.

The wires used for connections must have a cross-section
greater than 0.75 mm².

The gigabit version is intended for gas group IIB,
while the 100 Mbps version can be used in gas group IIC.

All device versions are designed for operation
in group I - mines

Ethernet LAN ports are marked as HAZ and SAFE. Network connections in explosive hazardous areas
must be connected to the RJ45 connector marked HAZ, while downstream devices located in non-
hazardous areas must be connected to the RJ45 connector marked SAFE. It is recommended to use an
RJ45 Cat5e cable. LAN connections to explosive hazardous areas are marked with a blue color on the
label to prevent confusion

TECHNICAL PARAMETERS:

Models:	Ethernet: 9474-ET 10/100Mb/s Gigabit Ethernet: 9474-ETG 10/100/1000 Mbps
Dimensions:	99 mm x 22,5 mm x 114,5 mm
Weight:	120g
Operating temperature:	-40 to +80°C
Humidity (max):	< 95% RH (Non-condensing)
Classification	[Ex ia Ma] I [Ex ia Ga] IIC or IIB (depending on the model) [Ex ia Da] IIIC, Ta = -40°C to +70°C

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Intrinsically Safe Parameters			
		9474-ET 10/100Mb/s:
		$U_o = 6,0V$
		$I_o = 2,24A$
		$P_o = 2,04W$
		$C_i = 0,504\ _uF$
		$U_i = 0$
		$U_i = 6,51\ V$

9474-ET 10/100Mb/s:
$$U_o = 6,0V$$
$$I_o = 2,24A$$
$$P_o = 2,04W$$
$$C_i = 0,504\ _uF$$
$$U_i = 0$$
$$U_i = 6,51\ V$$

9474-ETG 10/100/1000 Mbps:
$$U_o = 6,0V$$
$$I_o = 4,48A$$
$$P_o = 4,08W$$
$$C_i = 0,504\ _uF$$
$$U_i = 0$$
$$U_i = 6,51\ V$$

Version	Group	Inductance L_o (µH)	Capacitance C_o (µF)
10/100 Mbps MM 9474 ET	I	160	25
10/100 Mbps MM 9474 ET	IIA	130	22
10/100 Mbps MM 9474 ET	IIB/IIIC	100	17
10/100 Mbps MM 9474 ET	IIC	25	4,5
Gigabit MM 9474 ETG	I	56	39
Gigabit MM 9474 ETG	IIA	46	34
Gigabit MM 9474 ETG	IIB/IIIC	36	27
Gigabit MM 9474 ETG	IIC	9	7,1

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