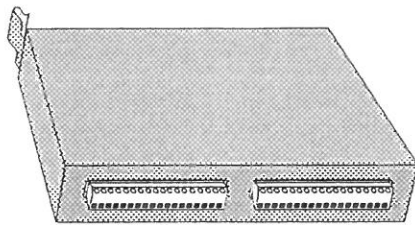
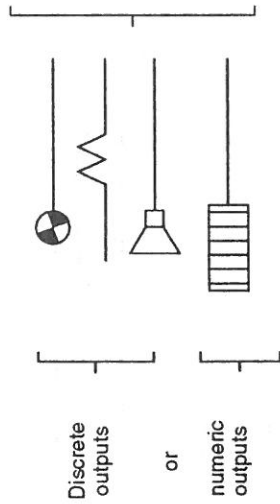


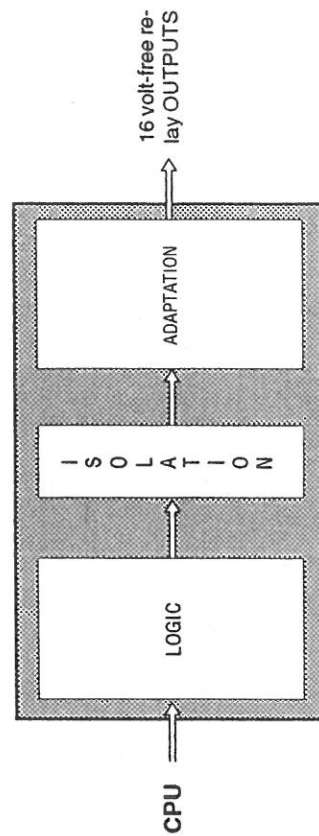
# 2 A 16 potential-free relay output module (24 VDC relay power supply) : QMA2160

## Introduction

This module is used to transmit discrete or numeric data to the process. It complies with standards IEC 65A and NFC 63850.



The module has 16 volt-free relay outputs.



## Characteristics

Operating voltage	12 to 250 VAC (47 to 63 Hz)
AC voltage	2 A
nominal current	12 A
peak current during 1 cycle	20 mA to 250 VAC
minimum load current	< 1 mA
residual current at state 0	12 to 128 VDC
DC voltage	2 A
nominal current	≤ 2 V
loss voltage	< 1 mA
residual voltage at state 0	45 mA to 128 VDC
minimum load current	
For applications with resistive or inductive loads (see curves on next page)	
Transil diode for protection against overvoltages	
Delay time	rise 15 ms fall 10 ms
Isolation between PLC ground and the commons of the connected outputs	2 kV
Isolation between outputs	2 kV
Number of operations guaranteed	800 000 (AC) 500 000 (DC)
Conformity with the IEC 65A 15 AC curve For a current of 1 A	
Operating temperature	5 to 55°C
Storage temperature	-25 + 70°C
Relative humidity - operating and storage	≤ 90 % no condensation
Weight	~ 1 kg
Dimensions	160 x 242 x 34 mm
Standards	IEC 65A NFC 63850

## Use in programming mode

The module transmits discrete or numeric data to the process.  
The discrete output is identified by %QXn (Output).

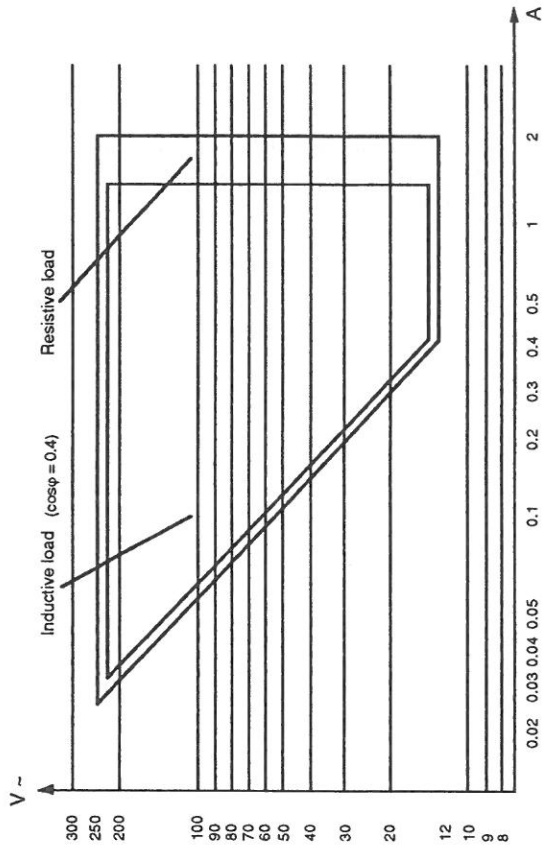
rack n°	n° of slot in the rack	n° of outputs in the module
0 CPU rack	1 to 8	00 to 15
1 extension rack 3000		

n =

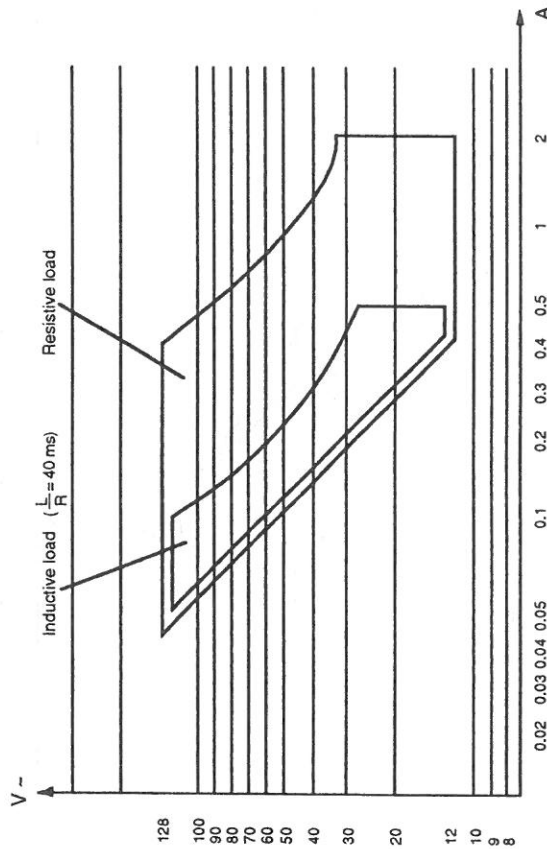
Example : rack 0, slot 2, output 6 → %QX206

Programming numeric outputs : see ORPHEE manual, Part B.

## AC operating zone



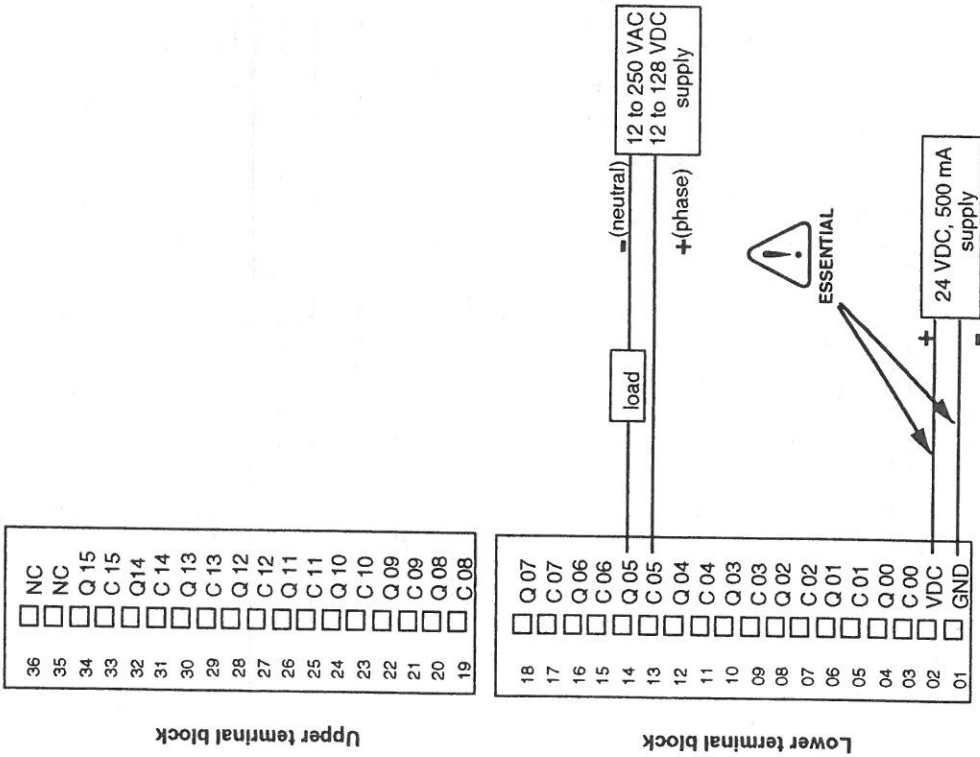
## DC operating zone



# B

## Connection, power supply

Wire cross section : 0.5 to 2.5mm<sup>2</sup>



## External power supply



The presence of this power supply is not monitored.  
The terminal block must not be disconnected if the sensor power supply is still live.