finder
SWITCH TO THE FUTURE

ARDUINO PRO™

8A SERIES OPTA
PROGRAMMABLE LOGIC RELAY

OPTA
PLR
8A SERIES

8A SERIES **OPTA** is a simple PROGRAMMABLE LOGIC RELAY or PLR, perfect for creating simple industrial systems in industrial / building automation applications.

Programmable both with traditional languages (Ladder, FBD and languages according to IEC61131-3) and Arduino IDE.

Built in ITALY by FINDER, combining our experience as a worldwide industrial brand with the technological innovation of ARDUINO, for a truly unique product on the market.

1 **What is the temperature range of the 8A SERIES OPTA range?**
8A SERIES OPTA can work in environments from -20°C to +55°C.

2 **Is the analog input of the 8A SERIES OPTA only 0-10 V or is there the possibility of programming 4-20 mA?**
The 8A SERIES OPTA analog input is only 0...10 V at present (up to 16 bit).

3 **According to the data sheet, the minimum switchable load for the output is 300 mW. What is the reason behind this value?**
300 mW is the minimum load that the relay contact can reliably switch.

4 **Can the 8A SERIES OPTA Ethernet port or Wi-Fi be used to connect to the Arduino Cloud?**
It is possible to connect the 8A SERIES OPTA to the Arduino cloud using either the Ethernet port or by Wi-Fi. There are tutorials on the Arduino community to help implement an Arduino cloud solution.

At present it is only possible to connect the 8A SERIES OPTA to the cloud if using IDE programming.

5 **Is there an opto-isolator between the power supply of 24 VDC input and the dedicated microcontroller input?**
The 8A SERIES OPTA inputs are protected with Zener diodes.

6 **Do the outputs have any protection?**
No, they are relay outputs. Any circuit protection should be provided by the user.

7 **Are the 8A SERIES OPTA output relay contacts volt free (dry contact)?**
Yes, they are volt free contacts (dry contact).

8 Can 8A SERIES OPTA be used to manage the safety of a machine or system (for example, shutdown in case of emergency)?
The 8A SERIES OPTA is NOT a safety rated product and should not be used to manage the safety of a system.

9 Is it possible to program the 8A SERIES OPTA in FBD or Ladder?
It is possible to program the 8A SERIES OPTA with IEC 61131-3 languages, so both and Ladder function block.
How about Open PLC or Codesys?
It is not possible with Open PLC or Codesys at present.

10 Can the 8A SERIES OPTA inputs handle fast pulses? (ie A rotary encoder)
Yes, 8A SERIES OPTA can work with encoders such as rotary encoders.

11 What does the UL certification cover?
UL certification refers to the complete product, in all its parts.

12 Is it possible to connect Touch Screen HMI devices to 8A SERIES OPTA?
It is possible to connect any HMI with Modbus RTU or Ethernet connectivity.

13 Is there any "timer/clock" type function in the 8A SERIES OPTA IDE language or do they all have to be external?
Timer functions need to be created, for that you can consult many tutorials on the subject present in the Arduino Pro portal.

14 Will it be possible to connect 8A SERIES OPTA to FINDER'S range of smart home devices, i.e. from the YESLY range?
Not at present but this type of application may be implemented in the future.

15 Is the development of an 8A SERIES OPTA KNX interface planned?
No there are no plans to produce a KNX interface at present.

16 What is the maximum expansion capacity of the product?
Various expansion modules are currently planned. Please stay in touch for further information.

17 What is in the 8A SERIES OPTA range?
To discover more about the FINDER 8A SERIES OPTA range please visit:
https://opta.findernet.com/en/

18 What is the price of the different versions of 8A SERIES OPTA?
To obtain the latest 8A SERIES OPTA prices please contact your local FINDER Office.