

CitySync Relay Card

DATA SHEET

Input/Output device to link to CitySync software.



The CitySync JGIO-30 relay card is the contact interface between the ANPR software and external components.

It is used in many areas where relays & ANPR are combined, including:

- ▶ Airports for barrier control
- ▶ Traffic light systems for red-light interface
- ▶ Roadside to link with cabinet alarms

Fully compatible with CitySync ANPR software

The JGIO-30 relay card is fully tested with the CitySync software providing a stable and reliable interface to third party devices.

Controls barriers and blockers

The relay card is most frequently used in access control solutions to open barriers and raise or lower road blockers. Here, the CitySync software reads a licence plate and compares it against a database of vehicles and permissions. Based on these permissions, the card can be set to close or open the contact for a configurable number of milliseconds; allowing permitted vehicles to pass and denying access to undesirables.

Links to traffic light systems

The relay card is able to send outputs to traffic light

KEY FEATURES

- ▶ Sends relay outputs to external devices
- ▶ Accepts inputs to trigger or mark reads
- ▶ Fits into any full-height PCI slot
- ▶ Fully compatible with CitySync software

systems, changing the lights to green to help, for example, emergency service vehicles.

Alternatively, the CitySync ANPR system can receive an input, through the JGIO-30, when the traffic light turns red. If a vehicle is captured by the ANPR system while the contact is closed and the light is red, the CitySync software can raise an alarm and mark the vehicle as a relay event.

Cabinet alarms

The JGIO-30 relay card has also been used to link cabinet alarms to ANPR roadside PCs inside. When used with the CitySync software, the input will trigger a plate event to be sent to a Police Back Office, like CitySync Safety. This generated plate event quickly informs the Police the cabinet is open so they can intercept any unwanted access to the system and data.

PART NO. INFORMATION	DESCRIPTION
JGIO-30	Relay card

TECHNICAL INFORMATION

Relay outputs	8 channels
Output Contact Rating	AC: 120 V @ 0.5 A DC: 24 V @ 1 A
Output Breakdown Voltage	1000 VRMS
Output Contact resistance	100 metres
Output Relay ON / OFF time	Operate — 8 ms Release — 8 ms
Isolated digital inputs	8 channels
Maximum input range	24 V, non polarity
Input High Voltage	5–24 V
Input Low Voltage	0–1.5 V
Input Resistance	2.2 kΩ @ 0.33 W
Input Isolation Voltage	5000 VRMS
Connector	37-pin D-Sub Female
Operating Temperatures	0°C to 60°C

PIN ASSIGNMENT

NO0	1	20	NO3
COM0	2	21	COM3
NC0	3	22	NC3
NO1	4	23	NO4
COM1	5	24	COM4
NC1	6	25	NO5
NO2	7	26	COM5
COM2	8	27	NO6
NC2	9	28	COM6
NO7	10	29	N/C
COM7	11	30	DI0_L
DI0_H	12	31	DI1_L
DI1_H	13	32	DI2_L
DI2_H	14	33	DI3_L
DI3_H	15	34	DI4_L
DI4_H	16	35	DI5_L
DI5_H	17	36	DI6_L
DI6_H	18	37	DI7_L
DI7_H	19		