

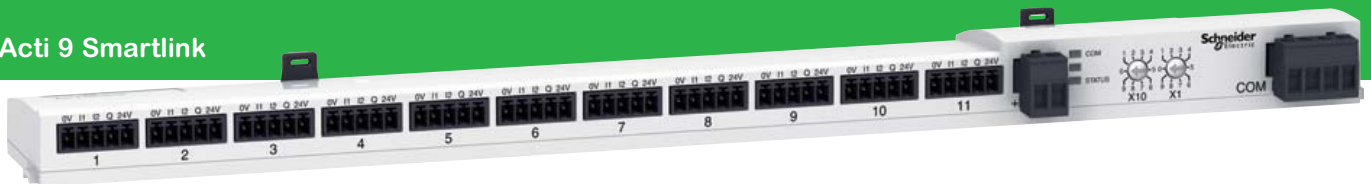
Ensuring the satisfactory functioning of loads critical for human safety

Acti 9 communication system

Prefabricated cables iOF+SD24 iACT24 iATL24



Acti 9 Smartlink



Customer needs

In an underground car park, ventilation and lighting are critical for human safety.

Any malfunction must immediately alert the surveillance personnel.

They must be able to diagnose the equipment and restore it to operation very rapidly, remotely whenever possible, or by going to the site.

In the event of a malfunction of the automatic control system which manages them, these loads must continue to operate without interruption.

Users / customer benefits

• **Fast, reliable installation:** the appliances are connected to the Modbus network via Acti 9 Smartlink communication interfaces and entirely prefabricated connector systems:

- wiring is performed quickly, without risk of error (inversion of cables, etc.),
- during maintenance operations, "thin wire" connections inside the switchboard are identifiable immediately. They can be handled without any tools thanks to plug-in connectors.

• A single RS485 link connects the various switchboards to the PLCs and the supervision system.

• **Reliability of data and indications:**

- low-level iOF+SD24 signaling contacts complying with IEC 60947-5-4,
- high level of electromagnetic compatibility of the Acti 9 Smartlink modules.

• Integrated in Acti 9 Smartlink, the counting of protective device tripping actions and hours' operation of luminaires can be used to plan preventive maintenance.

Proposed solution

Acti 9 Smartlink

Thanks to Acti 9 Smartlink, all the final distribution boards are connected directly to the site surveillance network.

The circuit breaker auxiliaries iOF+SD24 report any tripping and any deliberate opening.

The contactors and impulse relays receive switch-on and switch-off orders and report their status.

Selector switches on the front panel of the switchboards allow maintenance personnel to take over control of the automatic system to manage the contactors and impulse relays via push buttons. In that case, the position of the inhibition selector switch is sent over the Modbus network via the Acti 9 Smartlink interface.



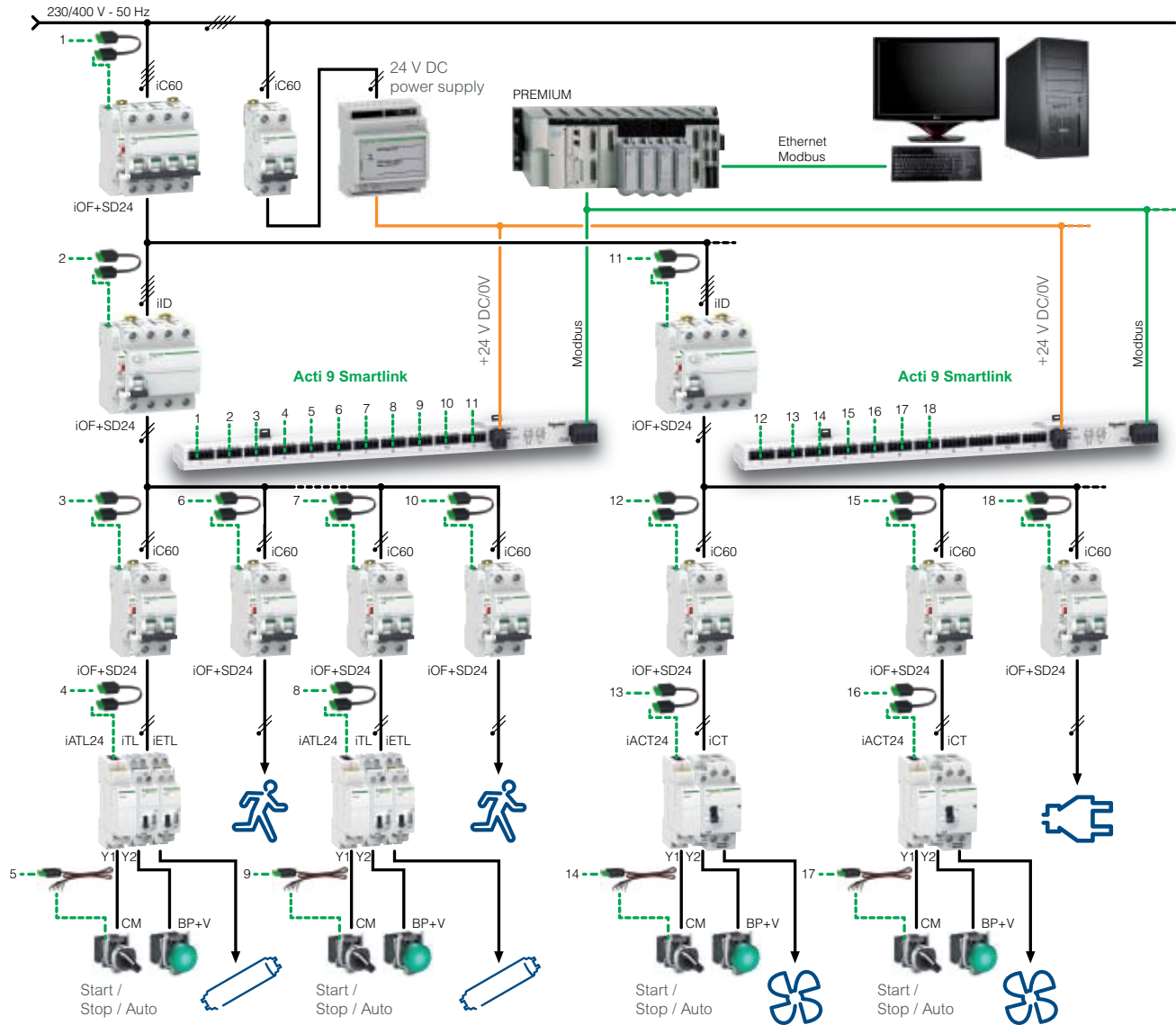
Underground car park

Preferred application

- commercial and industrial buildings, etc.

Remote management + manual control =
easy operation + continuity of service

Solution diagram



Products used

Product	Description	Unity	Cat. no.
Acti 9 Smartlink	Communication interface	-	A9XMSB11
iOF+SD24	24 V DC circuit breaker auxiliaries	-	A9A26897
iACT24	24 V DC contactor auxiliaries	-	A9C15924
iATL24	24 V DC impulse relay auxiliaries	-	A9C15424
Prefabricated cables (set of 6)	Short: 100 mm Medium: 160 mm Long: 870 mm Long semi-prefabricated: 870 mm	- - - -	A9XCAS06 A9XCAM06 A9XCAL06 A9XCAU06
Ti24 connectors	Set of 12	-	A9XC2412
Power supply	24 V DC	-	ABL8-MEM24006
Premium	Programmable logic controller	-	-

35, rue Joseph Monier - CS 30323
F-92506 Rueil-Malmaison - FRANCE

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