

Remote control

iTL impulse relays



Country approval pictograms

IEC/EN 60669-2-2
iTLs: IEC/EN 60947-5-1

Impulse relays



iTL

- The impulse relays are used to control, by means of pushbuttons, lighting circuits consisting of:
 - incandescent lamps, low-voltage halogen lamps, etc. (resistive loads)
 - fluorescent lamps, discharge lamps, etc. (inductive loads)

Remote indication



iTLs

- Allows remote indication of its operating state (open/closed)



Indication iTLs

- Allows remote indication of the associated impulse relay

Centralised control



iTLc

- Allows centralised control of a group of TLC impulse relays, whilst at the same time retaining local impulse-type control



Centralised control iTATLc

- Used for centralised control, thanks to a "pilot line", of a group of impulse relays controlling separate circuit, while at the same time maintaining local individual control of each impulse relay

Latched control



iTLm

- Operated by latched orders from a changeover contact (switch, time switch, thermostat). Manual control does not work



Latched control iTATLm

- Controls the associated impulse relay by latched orders from a changeover contact

Ampulse relays

Remote control

iTL impulse relays (cont.)

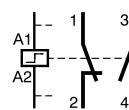
Impulse relays are used:

- Closing of the impulse relay pole(s) is triggered by an impulse on the coil.
- Having two stable mechanical positions, the pole(s) will be opened by the next impulse. Each impulse received by the coil reverses the position of the pole(s).
- Can be controlled by an unlimited number of pushbuttons.
- Zero energy consumption.



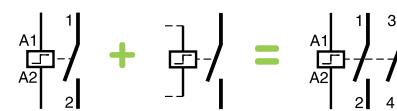
Changeover contact iTLi

- This impulse relay has a changeover contact



Extensions iETL

- Used to increase the number of impulse relay poles
- Can be installed on the iTL, iTLi, iTLC, iTLm and iTLs



Centralised control + indication iTLC+s

- Used for centralised control, thanks to a "pilot line", of a group of impulse relays controlling separate circuit, while at the same time maintaining local individual control of each impulse relay
- Remote indication of the mechanical status of each relay



Control and indication 24 V DC iTL24

- Allows control and indication of a 230 V AC impulse relay from the Acti 9 Smartlink or by a PLC, by 24 V DC signals
- Also allows control by a pulsed signal



Multi-level centralised control iTLC+c

- Allows centralised control of a group of iTLC or "iTLC + ATLC" impulse relays

Time delay iATEt

- Combined with an impulse relay, it automatically disconnects the circuit after a preset time



Control iTLz

- Must be used when installing several illuminated PBs in parallel to control an impulse relay (prevents operating malfunctions)



Step by step control iTL4

- Allows step-by-step control of two circuits via a single pushbutton

▲ Impulse relays auxiliaries

▲ Specific auxiliaries

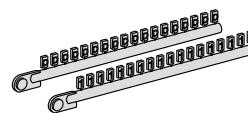
Remote control

iTL impulse relays (cont.)

Mounting accessories

| | |
|--|----------|
| 11 Yellow clips | A9C15415 |
| 12 9 mm spacer | A9A27062 |
| 13 Clip-on terminal markers see module | CA907001 |

DB124931



13



12



11

Auxiliaries

Centralised control

| | | |
|---|---------------|----------|
| 2 iATLc ⁽¹⁾ , ⁽³⁾ | 24...240 V AC | A9C15404 |
|---|---------------|----------|

Indication

| | | |
|------------------------|---------------|----------|
| 3 iATLs ⁽¹⁾ | 24...240 V AC | A9C15405 |
|------------------------|---------------|----------|

Centralised control + indication

| | | |
|--------------------------|---------------|----------|
| 4 iATLc+s ⁽³⁾ | 24...240 V AC | A9C15409 |
|--------------------------|---------------|----------|

Multi-level centralised control

| | | |
|---|---------------|----------|
| 5 iATLc+c ^{(2),⁽³⁾} | 24...240 V AC | A9C15410 |
|---|---------------|----------|

Step by step control

| | | |
|---------|----------|----------|
| 6 iATL4 | 230 V AC | A9C15412 |
|---------|----------|----------|

Control by illuminated push-buttons

| | | |
|---------|----------------|----------|
| 7 iATLz | 130...240 V AC | A9C15413 |
|---------|----------------|----------|

Latched control

| | | |
|------------------------|---------------|----------|
| 8 iATLm ⁽¹⁾ | 12...240 V AC | A9C15414 |
|------------------------|---------------|----------|

Time delay control

| | | |
|------------------------|---------------|----------|
| 9 iATEt ⁽⁴⁾ | 24...240 V AC | A9C15419 |
|------------------------|---------------|----------|

Control and indication

| | | |
|-----------|----------|----------|
| 10 iATL24 | 230 V AC | A9C15424 |
|-----------|----------|----------|

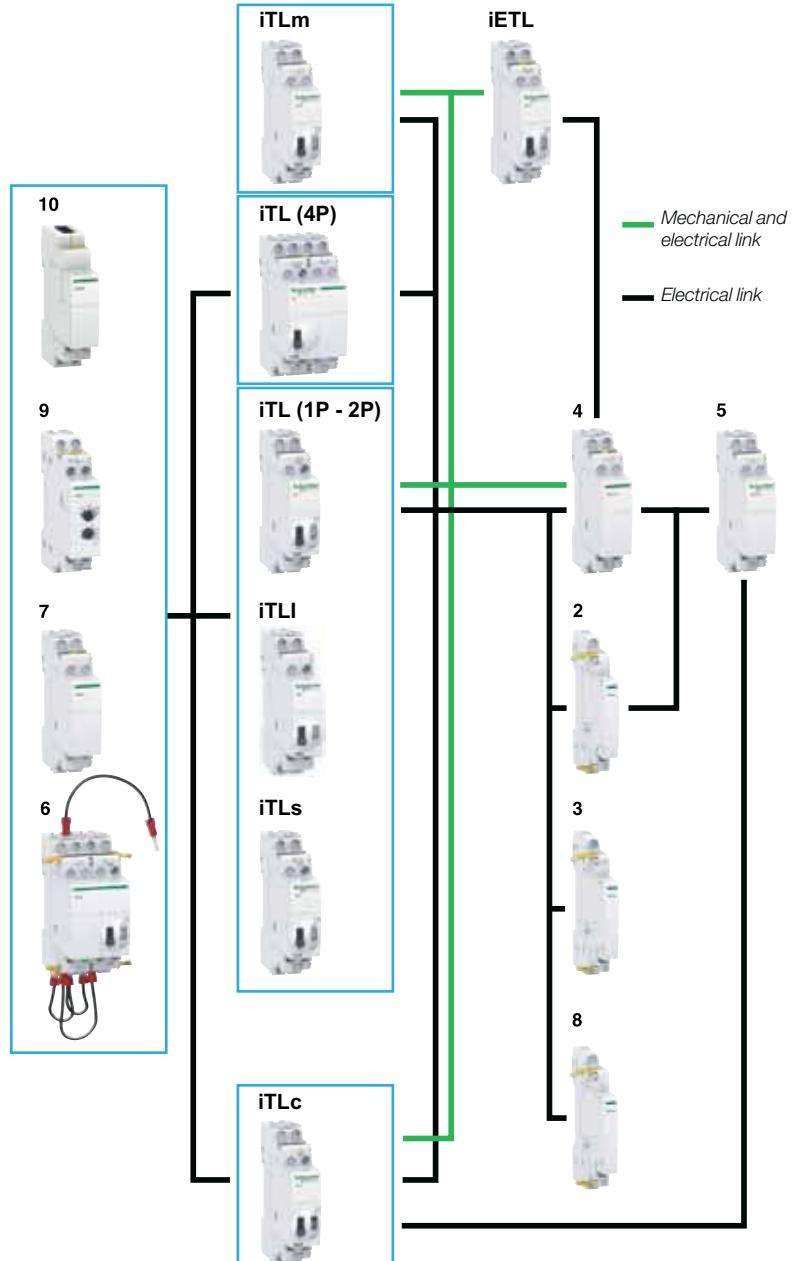
(1) The iATLc, iATLs and iATLm 9 mm auxiliaries are used by themselves to the right of an impulse relay.

(2) Connection by traditional cabling.

The iATLc+c must be mounted to the right of an iATLc+s or an iATLc.

(3) The centralised control functions (iTLC, iATLc, iATLc+s, iATLc+c) only operate on AC voltage networks.

(4) iATEt: control voltage:
24...240 VAC, 24...110 VDC.



Remote control

iTL impulse relays (cont.)

PB106126-41

Yellow clip

- A simple clip-on system for flexible auxiliaries combination and improved robustness
- For electrical and mechanical connections



- Insulated terminals IP20

- Large circuit labeling area



- Built-in or optional auxiliary function: state indication, centralised control, latched control, control for illuminated pushbutton, step-by-step control, time delay

- Consistent with the entire Acti 9 offer and with all types of lighting



- Disconnection of remote control by selector switch (except for 4P single-piece iTL) for maintenance operation

- Manual controls on front face: direct and priority manual control by O-I toggle
- Mechanical contact position indicator

Choice impulse relays auxiliaries

| Type | Standard iTL | | | | | Changeover iTL | | | | | iTLc centralised control | iTLM control on latched order | iTLS remote indication | | |
|---|--------------|------|-----|-----|----|----------------|------|-----|------|-----|--------------------------------|----------------------------------|---------------------------|----|----|
| Rating | A | 16 | | 32 | | 16 | | | | | 16 | 16 | 16 | | |
| Control voltage | VAC | 230/ | 130 | 48 | 24 | 12 | 230/ | 240 | 230/ | 130 | 48 | 24 | 230/ | 48 | 24 |
| | | 240 | | | | | 240 | | 240 | | | | 240 | | |
| Auxiliaries | | | | | | | | | | | | | | | |
| Extension | | | | | | | | | | | | | | | |
| iETL | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Centralised control + indication | | | | | | | | | | | | | | | |
| iATLc+s | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | - | - | - | ■ | ■ | |
| Centralised control | | | | | | | | | | | | | | | |
| iATLc | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | - | - | - | ■ | ■ | |
| Indication | | | | | | | | | | | | | | | |
| iATLs | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Multi-level centralised control | | | | | | | | | | | | | | | |
| iATLc+c | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | ■ | - | ■ | ■ | |
| Latched control | | | | | | | | | | | | | | | |
| iATLm | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | - | - | - | ■ | ■ | |
| Control for illuminated Pushbutton | | | | | | | | | | | | | | | |
| iATLz | ■ | ■ | - | - | - | ■ | ■ | ■ | - | ■ | ■ | - | ■ | ■ | |
| Step by step control | | | | | | | | | | | | | | | |
| iATL4 | ■ | - | - | - | - | ■ | ■ | - | - | ■ | - | - | ■ | - | |
| Time delay control | | | | | | | | | | | | | | | |
| iATEt | ■ | ■ | ■ | (*) | ■ | - | ■ | ■ | ■ | ■ | (*) | - | ■ | ■ | |
| Control and indication | | | | | | | | | | | | | | | |
| iATL24 | ■ | - | - | - | - | ■ | ■ | - | - | ■ | - | - | ■ | - | |

(*) iATEt : does not operate on 12 V DC.

Remote control

iTL impulse relays

Catalogue numbers

iTL impulse relays

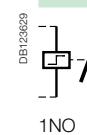
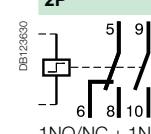
| Type | 1P | 2P | 3P | 4P |
|-----------------------|--|------------------------|----------------------------|--------------------------------|
| Rating (In) | Control voltage (Uc) (V AC) (50/60 Hz) | (V DC) | | |
| 16 A | 12 | 6 A9C30011 | A9C30012 | A9C30011 + A9C32016 |
| | 24 | 12 A9C30111 | A9C30112 | A9C30111 + A9C32116 |
| | 48 | 24 A9C30211 | A9C30212 | A9C30211 + A9C32216 |
| | 130 | 48 A9C30311 | A9C30312 | A9C30311 + A9C32316 |
| | 230...240 | 110 A9C30811 | A9C30812 | A9C30811 + A9C32816 |
| | 230...240 | 110 A9C30831 | A9C30831 + A9C32836 | A9C30831 + 2 x A9C32836 |
| Width in 9 mm modules | | 2 | 2 | 4 |

iTl impulse relays

Type

| Type | 2P | |
|-------------|--|------------------------|
| Rating (In) | Control voltage (Uc) (V AC) (50/60 Hz) | (V DC) |
| 16 A | 12 | 6 A9C30015 |
| | 24 | 12 A9C30115 |
| | 48 | 24 A9C30215 |
| | 130 | 48 A9C30315 |
| | 230...240 | 110 A9C30815 |
| | Width in 9 mm modules | |

iETL extensions for iTL and iTLI

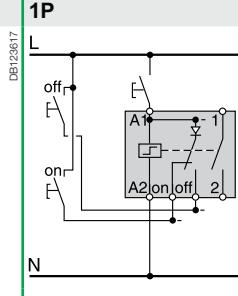
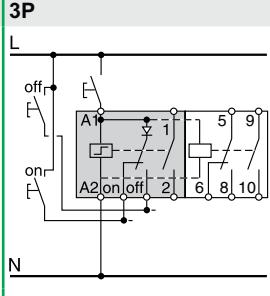
| Type | Width in 9 mm modules | | | |
|---|-----------------------|--|--------|-------------------|
| 1P | Rating (In) | Control voltage (Uc) (V AC) (50/60 Hz) | (V DC) | |
|  | 32 A | 230...240 | 110 | A9C32836 2 |
|  | 16 A | 12 | 6 | A9C32016 2 |
| | | 24 | 12 | A9C32116 2 |
| | | 48 | 24 | A9C32216 2 |
| | | 130 | 48 | A9C32316 2 |
| | | 230...240 | 110 | A9C32816 2 |

Remote control

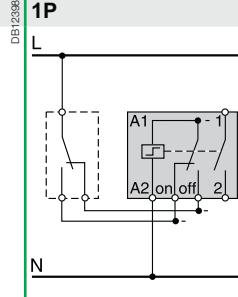
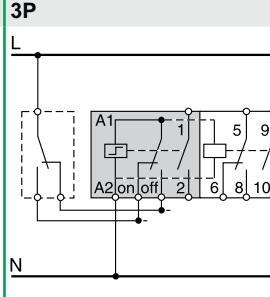
**iTLC, iTLM, iTLs
with built-in auxiliary function**

Catalogue numbers (cont.)

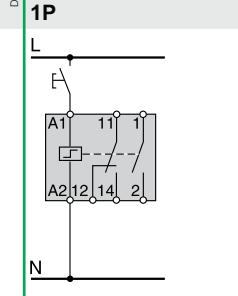
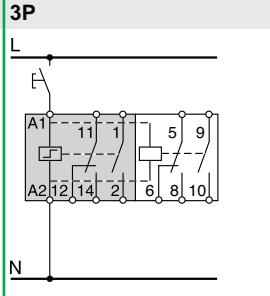
iTLC impulse relay with centralised control

| Type | 1P | 3P |
|-----------------------|---|---|
| | DB123617 | DB123618 |
| |  |  |
| Rating (In) | Control voltage (Uc) (V AC) (50/60 Hz) | |
| 16 A | 24 | A9C33111 |
| | 48 | A9C33211 |
| | 230...240 | A9C33811 |
| Width in 9 mm modules | 2 | 4 |

iTLM impulse relay with latched control

| Type | 1P | 3P |
|-----------------------|---|---|
| | DB123996 | DB123997 |
| |  |  |
| Rating (In) | Control voltage (Uc) (V AC) (50/60 Hz) | |
| 16 A | 230...240 | A9C34811 |
| Width in 9 mm modules | 2 | 4 |

iTLs impulse relay with remote indication*

| Type | 1P | 3P |
|-----------------------|---|---|
| | DB123621 | DB123622 |
| |  |  |
| Rating (In) | Control voltage (Uc) (V AC) (50/60 Hz) | |
| 16 A | 24 | A9C32111 |
| | 48 | A9C32211 |
| | 230...240 | A9C32811 |
| Width in 9 mm modules | 2 | 4 |

(*) Short circuit protection device for indication contacts : 6 A gG fuse.

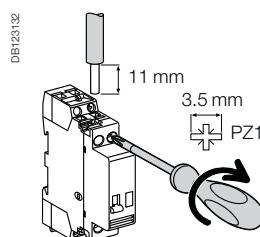
Schneider
Electric

41

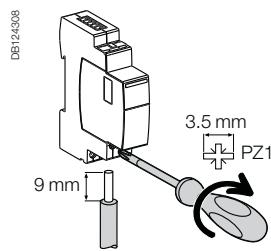
Remote control

iTL impulse relays

Connection

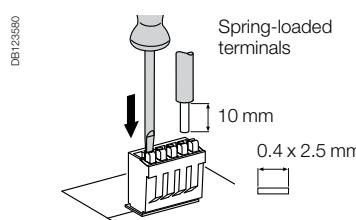


| Type | Rating | Circuit | Tightening torque | Copper cables | |
|---|--------|---------|-------------------|---------------------------|---------------------------|
| | | | | Rigid or ferrule | Flexible or ferrule |
| iTl, iTLi, iTLc, iTLM, iTLs, iETL | 16 A | Control | 1 N.m | 0.5 to 4 mm ² | 1 to 4 mm ² |
| | | Power | | 1.5 to 4 mm ² | 1.5 to 4 mm ² |
| iTl, iETL | 32 A | Control | 1.2 N.m | 0.5 to 4 mm ² | 1 to 4 mm ² |
| | | Power | | 1.5 to 10 mm ² | 1.5 to 10 mm ² |
| iATLs, iATLc, iATLc+s, iATLc+c, iATLm, iATEt, iATL4, iATLz | | | 1 N.m | 0.5 to 4 mm ² | 1 to 4 mm ² |



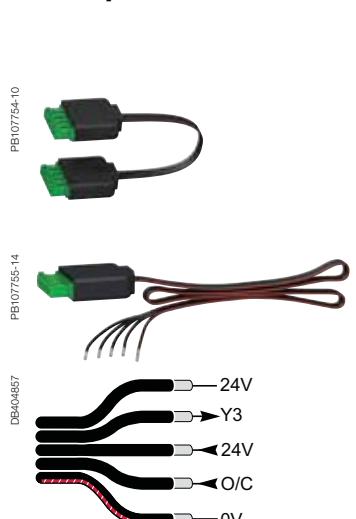
| Type | Terminals | Tightening torque | Copper cables | | |
|-------|---|-------------------|---|--|--|
| | | | Rigid | Flexible | Flexible or ferrule |
| iTl24 | Power supply (N/P) Input (Y1/Y2) | 1 N.m | 0.5 to 10 mm ² 2 x 0.5 to 2 x 2.5 mm ² | 0.5 to 6 mm ² 2 x 0.5 to 2 x 2.5 mm ² | 0.5 to 4 mm ² 2 x 0.5 to 2 x 2.5 mm ² |
| | | | | | |

Ti24 connector connection



| Type | Catalogue numbers | Copper cables | |
|----------------|-------------------|--------------------------------|--------------------------------|
| | | Rigid | Flexible |
| Ti24 interface | A9XC2412 | 1 x 0.5 to 1.5 mm ² | 1 x 0.5 to 1.5 mm ² |

Ti24 prefabricated cables connection

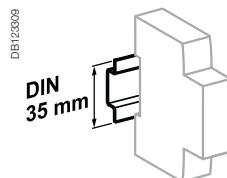
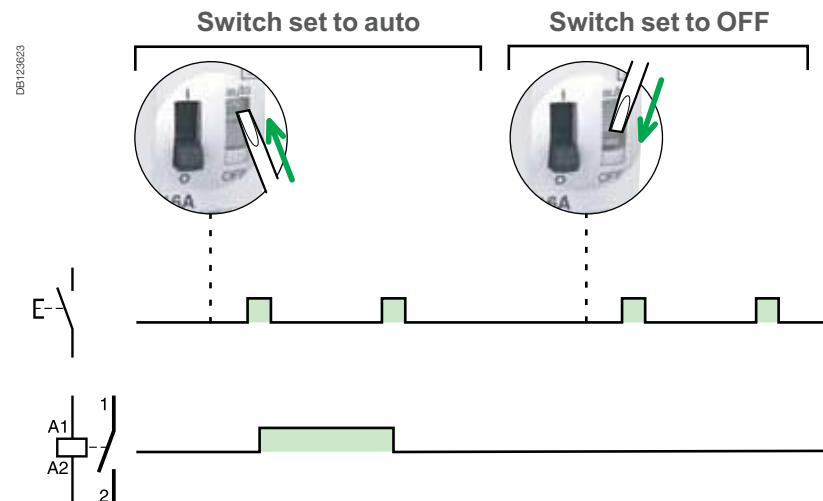


| Type | Catalogue numbers | Length |
|--|-------------------|--------|
| Connection for Acti 9 Smartlink | | |
| 6 short prefabricated | A9XCA506 | 100 mm |
| 6 medium-sized prefabricated | A9XCA506 | 160 mm |
| 6 long prefabricated | A9XCA506 | 870 mm |
| Connection for PLC type terminals | | |
| 6 long prefabricated on a single side | A9XCAU06 | 870 mm |

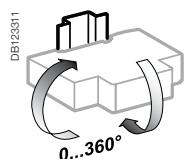
Remote control

iTL impulse relays (cont.)

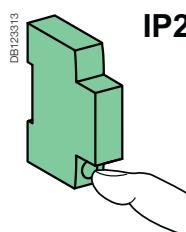
Operation



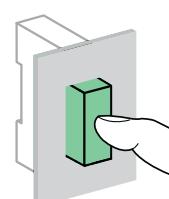
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



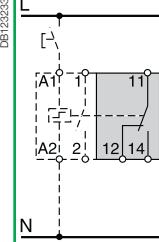
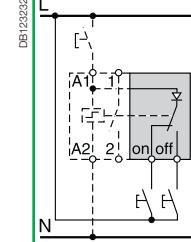
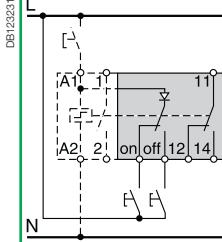
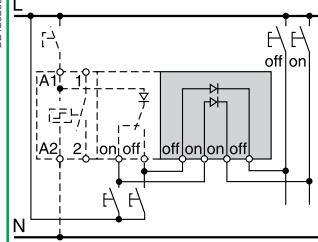
IP40

Technical data

| Control circuit | | |
|--|---|--|
| | iTL and iTL 16 A iTLC, iTLM, iTLs, iETL 16 A | iTL 32 A, iETL 32 A |
| Dissipated power (during the impulse) | 1, 2, 3P: 19 VA 4P: 38 VA | 19 VA |
| Illuminated PB control | Max. current 3 mA (if > use an ATLz) | |
| Operating threshold | Min. 85 % of Un in conformance with IEC/EN60669-2-2 | |
| Duration of the control order | 50 ms to 1 s (200 ms recommended) | |
| Response time | 50 ms | |
| Power circuit | | |
| Voltage rating (Ue) | 1P, 2P 3P, 4P | 24 ... 250 V AC 24 ... 415 V AC |
| Frequency | | 50 Hz or 60 Hz |
| Maximum number of operations per minute | | 5 |
| Maximum number of switching operation a day | | 100 |
| Additional characteristics to IEC/EN 60947-3 | | |
| Insulation voltage (Ui) | | 440 V AC |
| Pollution degree | | 3 |
| Rated impulse withstand voltage (Uimp) | | 6 kV |
| Endurance (O-C) | | |
| Electrical to IEC/EN 60947-3 | 200,000 cycles (AC21) 100,000 cycles (AC22) | 50,000 cycles (AC21) 20,000 cycles (AC22) |
| Overvoltage category | | IV |
| Other characteristics | | |
| Degree of protection (IEC 60529) | Device only Device in modular enclosure | IP20 IP40 Insulation class II |
| Operating temperature | | -20°C to +50°C |
| Storage temperature | | -40°C to +70°C |
| Tropicalization (IEC 60068-1) | | Treatment 2 (relative humidity 95 % at 55°C) |

Remote control

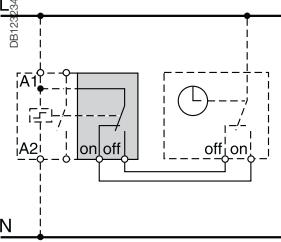
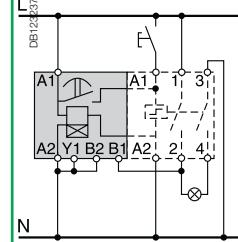
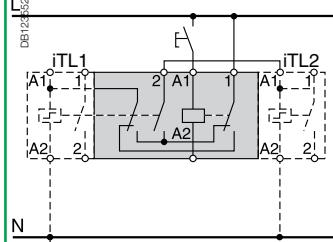
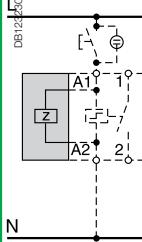
**iTL impulse relays
Electrical auxiliaries
for iTL impulse relays**

| Auxiliaries | Indication | Control | iATLs | iATLc | iATLc+s | iATLc+c |
|---------------------------------------|--|---|--|--|--|-------------|
| Type | Indication | Centralised control | PB106139-34 | PB106137-34 | PB106140-34 | PB106136-34 |
| Function | <ul style="list-style-type: none"> ■ Allows remote indication of the associated impulse relay | <ul style="list-style-type: none"> ■ Used for centralised control, thanks to a "pilot line", of a group of impulse relays controlling separate networks, while at the same time maintaining local individual control of each impulse relay | <ul style="list-style-type: none"> ■ And for remote indication of the mechanical status of each relay | <ul style="list-style-type: none"> ■ Used to control the centralised controls of a number of impulse relay groups, while at the same time maintaining local individual control and centralised control by level | | |
| Wiring diagrams |  |  |  |  | <ul style="list-style-type: none"> ■ Each group, made up of iTLc or (iTL or iTLc) + iATLc+s, must only contain a single iATLc+c ■ Maximum number of impulse relays that can be controlled: <ul style="list-style-type: none"> □ 230 V AC: 24 □ 130 V AC: 12 □ 48 V AC: 5 | |
| Mounting | <ul style="list-style-type: none"> ■ Mounted to the right of iTL by yellow clips | <ul style="list-style-type: none"> ■ Mounted to the right of iTL by yellow clips | <ul style="list-style-type: none"> ■ Mounted to the right of iTL by yellow clips | <ul style="list-style-type: none"> ■ Without mechanical link with impulse relays and auxiliaries | | |
| Catalogue numbers | A9C15405 | A9C15404 | A9C15409 | A9C15410 | | |
| Technical specifications | | | | | | |
| Control voltage (Ue) | VAC | 24...240 | 24...240 | 24...240 | 24...240 | 24...240 |
| | VDC | 24...240 | — | — | — | — |
| Control voltage frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Width in 9 mm modules | 1 | 1 | 2 | 2 | 2 | 2 |
| Auxiliary contact (breaking capacity) | <ul style="list-style-type: none"> ■ Minimum: 10 mA at 24 V AC/DC ■ Maximum (IEC 60947-5-1): <ul style="list-style-type: none"> □ 12...240 V AC 6 A □ 12...24 V DC 6 A □ 15...240 V AC 2 A □ 13...24 V DC 2 A | | | | | |
| Number of contacts | — | — | — | — | — | — |
| Operating temperature | °C | -20°C to +50°C | | | | |
| Storage temperature | °C | -40°C to +70°C | | | | |

Remote control

iTL impulse relays Electrical auxiliaries for iTL impulse relays (cont.)

Control

| iATLm | iATEt | iATL4 | iATLz |
|---|--|--|--|
| Latched control | Time delay | Step by step control | Control by illuminated push-buttons |
|  |  |  |  |
| ■ Combined with an impulse relay, it operates on latched orders | ■ Combined with an impulse relay, it automatically disconnects the circuit after a preset time | ■ Allows the step by step sequence over 2 circuits | ■ Used to control impulse relays by illuminated push-buttons, without operating risks |
|  |  |  |  |
| — | ■ 5 time setting ranges: <input type="checkbox"/> 1 to 10 s <input type="checkbox"/> 6 to 60 s <input type="checkbox"/> 2 to 10 min <input type="checkbox"/> 6 to 60 min <input type="checkbox"/> 2 to 10 h | ■ The cycle is as follows: <input type="checkbox"/> 1 st impulse - iTL 1 closed, iTL 2 open <input type="checkbox"/> 2 nd impulse - iTL 1 open, iTL 2 closed <input type="checkbox"/> 3 rd impulse - iTL 1 and 2 closed <input type="checkbox"/> 4 th impulse - iTL 1 and 2 open <input type="checkbox"/> 5 th impulse - iTL 1 closed, iTL 2 open, etc | ■ Provide an iATLz when the current drawn up by the illuminated push-buttons is higher than 3 mA (this current is sufficient to keep the coils energised). Above this value, fit one extra iATLz per 3 mA. ■ For example: for 7 mA, fit 2 iATLz |
| ■ Mounted to the right of iTL by yellow clips A9C15414 | ■ Mounted to the left of iTL by yellow clips A9C15419 | ■ Assembled between 2 impulse relays: according to the auxiliarisation table by yellow clips A9C15412 | ■ Mounted to the left of iTL by yellow clips A9C15413 |
| 12...240 | 24...240 | 230 | 130...240 |
| 6...110 | 24...110 | — | — |
| 50/60 | 50/60 | 50/60 | 50/60 |
| 1 | 2 | 4 | 2 |
| — | — | — | — |
| — | — | — | — |
| -20°C to +50°C | | | |
| -40°C to +70°C | | | |

Remote control

iTL impulse relays Electrical auxiliaries for iTL impulse relays (cont.)

Control and indication

Auxiliaire

iATL24

Type

Control and indication 24 V DC

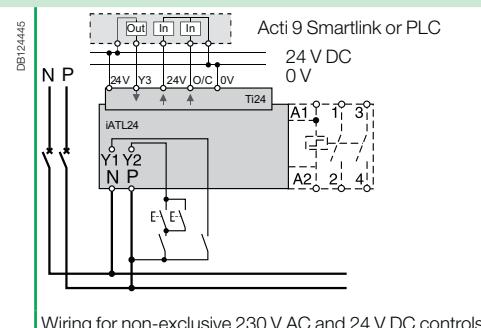
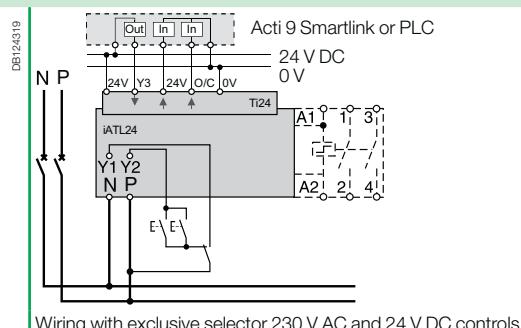
With Ti24 connector



Function

- This auxiliary allows an impulse relay to be interfaced with the Acti 9 Smartlink interface or a programmable logic controller (PLC) in 24 V DC (control, O/C indication)
- 230 V AC control

Wiring diagrams



Wiring with exclusive selector 230 V AC and 24 V DC controls

Wiring for non-exclusive 230 V AC and 24 V DC controls

Mounting

- To the left of the iTL impulse relay using the yellow clips⁽¹⁾.
- When an iATL24 is used, the A1/A2 terminals of the impulse relay should not be wired. Only the yellow clips integral with the iATL24 should be used for connection to the coil.

Utilization

- 230 V AC interface:
 - Y1: enabling of 24 V DC control (Y1 = 1) or inhibition of 24 V DC control (Y1 = 0).
 - Y2: 230 V pulse control
- "Ti24" 24 V DC interface:
 - Y3: 24 V DC control of iTL closing on rising edge and opening on falling edge
 - reading of the impulse relay status (opened or closed) from the position of the integrated O/C auxiliary contact
 - monitoring of connection of the "Ti24" terminal block by the upstream system (PLC, supervision system) via the 24 V terminal (in the centre of the Ti24 terminal block)

Catalogue numbers

A9C15424

Technical specifications

| | | |
|--|------|--|
| Control voltage (Ue) | V AC | 230, +10 %, -15 % (Y2) |
| | V DC | 24, ± 20 % (Y3) |
| Control voltage frequency | Hz | 50/60 |
| Insulation voltage (Ui) | V AC | 250 |
| Rated impulse withstand voltage (Uimp) | kV | 8 (OVC IV) |
| Pollution degree | | 3 |
| Degree of protection | | IP20B device only |
| Width in 9 mm modules | | IP40 device in modular enclosure |
| Auxiliary contact (O/C) Ti24 | | 24 V DC protected output, min. 2 mA, max. 100 mA |
| Contact | | 1 O/C operating category AC 14 |
| Operating temperature | °C | -25°C to +60°C |
| Storage temperature | °C | -40°C to +80°C |
| Consumption | | <1 W |
| Standard | | IEC/EN 60947-5-1 |

(1) Mechanical and electrical connection.

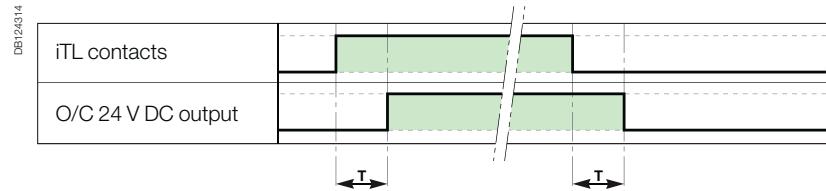
Remote control

iTL impulse relays Electrical auxiliaries for iTL impulse relays (cont.)



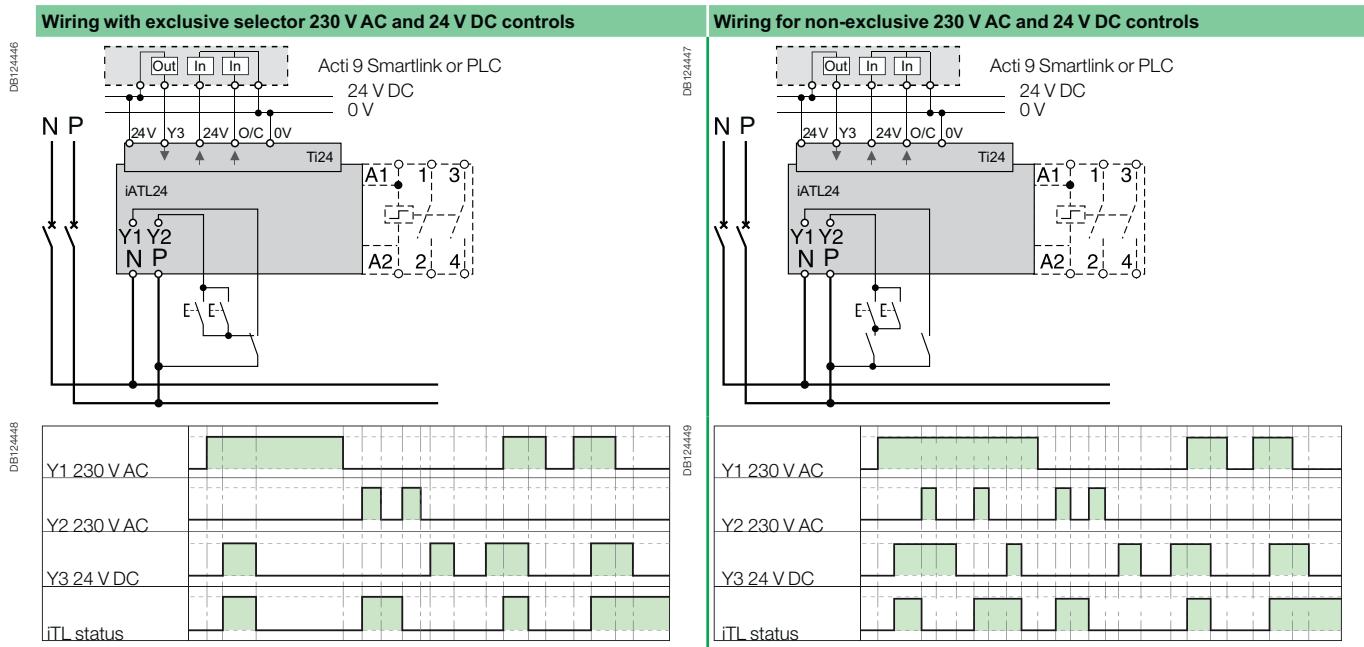
Operation of the iATL24

O/C 24 V DC output



| | Parameter | Min | Max |
|---|--|--------|--------|
| T | Time delay between iATL24 closing and indication | 100 ms | 200 ms |

- Minimum duration of 230 V AC pulse (Y2): 200 ms.
- 30 iATL24 closing or opening actuations are authorized per minute: Minimum time delay between 2 actuations on the iATL24 via Y1,Y2, Y3 (closing or opening of the iTL coil): 440 ms.
- 10 closing or opening actuations spaced 440 milliseconds apart are authorized following no loading of the iATL24 during a period of 20 seconds.

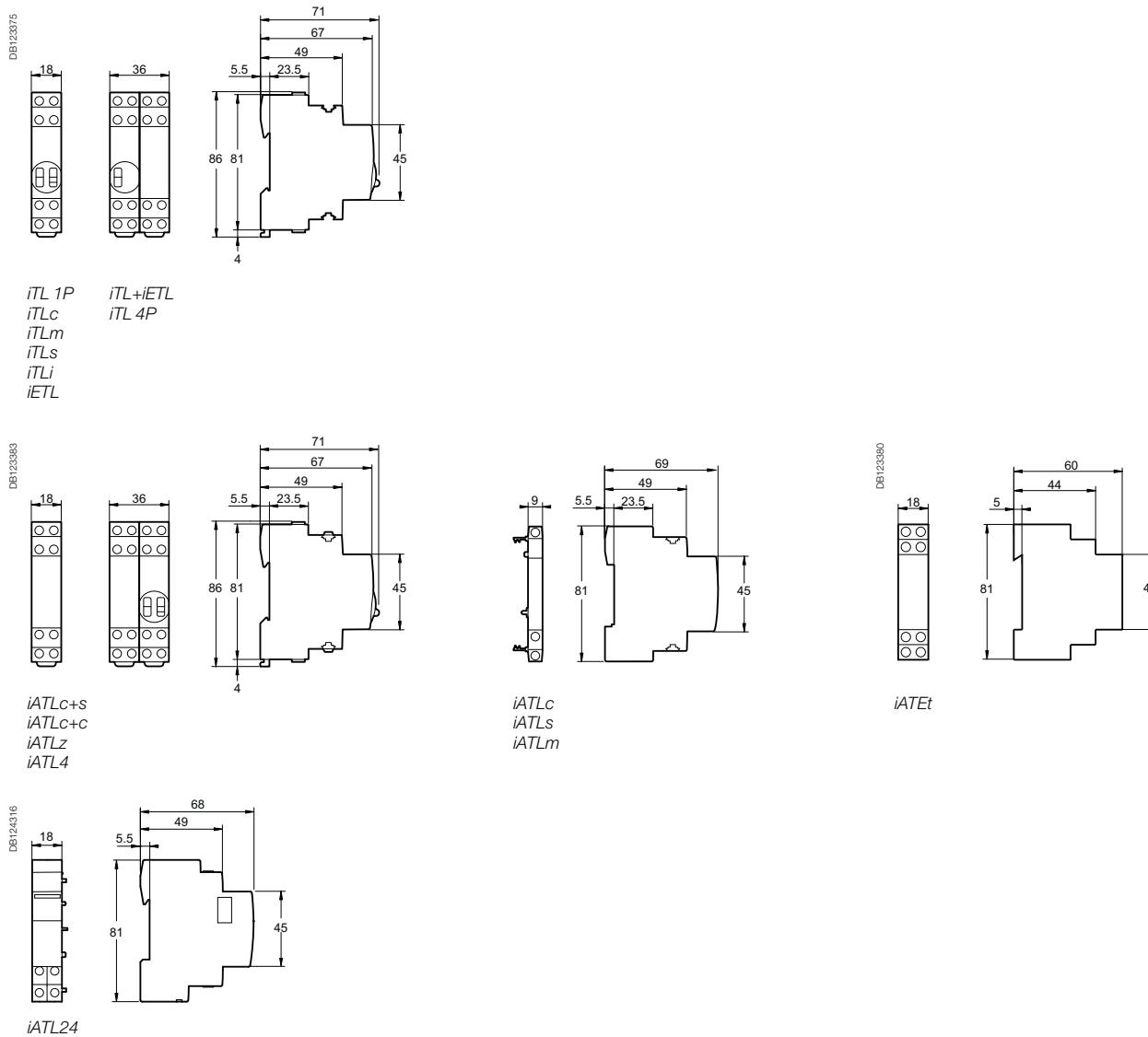


Remote control

iTL impulse relays

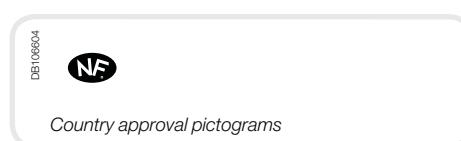
| Accessories | Yellow clips | Spacer |
|---------------------------------|---|--|
| |  |  |
| Function | | <ul style="list-style-type: none"> ■ Ensure the mechanical and/or electrical link between impulse relays and their auxiliaries (set of 10). ■ Required to reduce temperature rise of modular devices installed side by side. ■ Recommended to separate electronic devices (thermostat, programmable clock, etc.) from electromechanical devices (relays, contactors). |
| Catalogue numbers | | A9C15415 A9A27062 |
| Technical specifications | | |
| Width in 9 mm modules | - | 1 |

Dimensions (mm)



Control
Remote control

iTL+ high-performance impulse relays

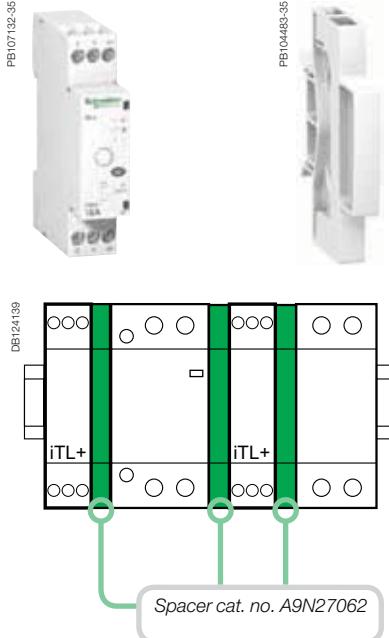


EN 60669-2-2

The iTL+ high-performance impulse relay allows remote control of single-phase circuits. It is designed for demanding applications.

The iTL+ high-performance impulse relay is used for push-button control of lighting circuits consisting of:

- incandescent lamps, low-voltage halogen lamps, etc. (resistive loads)
- fluorescent tubes, discharge lamps, etc. (inductive loads).



| iTL+ | | Rating | Width in 9 mm modules |
|------|----------|------------------------------|-----------------------|
| Type | | | |
| 1P+N | | 16 A | A9C15032 |
| | DB106156 | <p>A1 N 1 L 3 A2 2 4</p> | 2+1 ⁽¹⁾ |

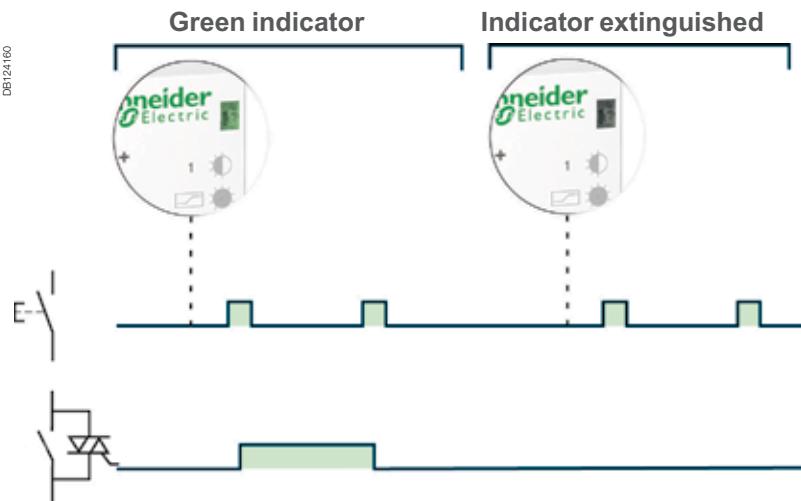
(1) Supplied with a 9 mm spacer (cat. no. A9N27062): to be used for mounting the iTL+ alongside a circuit breaker, contactor, impulse relay, etc., in order to maintain optimal operation.



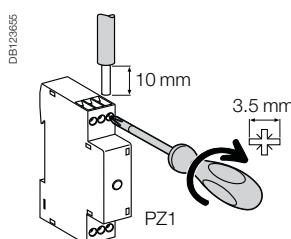
It is compulsory:

- to connect the neutral
- to keep the same control circuit connection "A1: phase", "A2: neutral"
- to use the same phase for connection of the power and control functions.

Operation



Connection



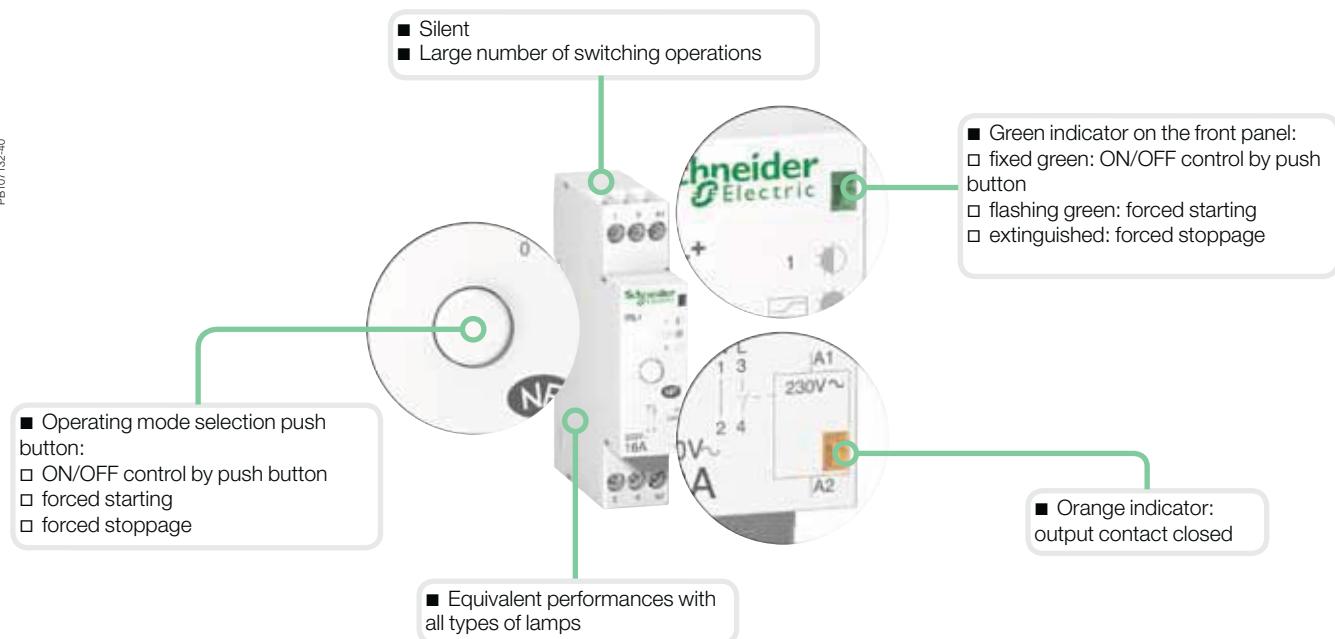
| Type | Rating | Tightening torque | Copper cables | |
|------|--------|-------------------|--------------------------------|--|
| | | | Rigid or flexible with ferrule | Rigid or flexible without ferrule |
| iTL+ | 16 A | 1 N.m | DB123656 | DB123657 |
| | | | 2 x 1.5 mm ² | 2 x 2.5 mm ² 1 x 4 mm ² |

Control
Remote control

iTL+ high-performance impulse relays (cont.)

They combine the benefits of static switching and electromechanical technology: small size, little temperature rise.

PB107132-40



Following a mains failure, the iTL+ returns to 0 position (forced stoppage) irrespective of its initial state.

Technical data

Control circuit

| | |
|---------------------------------|-----------------------------------|
| Coil voltage (Uc) | 230 V AC |
| Frequency | 50 Hz |
| Inrush power | 11 VA |
| Holding power | 1.1 VA |
| Control by luminous push button | Max. current 5 mA |
| Control order duration | 50 ms to 1 s (recommended 200 ms) |

Power circuit

| | |
|--|----------------|
| Voltage rating (Ue) | 230 V AC |
| Frequency | 50 Hz |
| Electrical load | Minimum 20 W |
| | Maximum 3600 W |
| Max. number of switching operations per minute | 6 |

Other characteristics

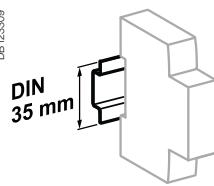
| | | |
|----------------------------------|-----------------------------|---|
| Degree of protection (IEC 60529) | Device only | IP20 |
| | Device in modular enclosure | IP40 |
| Endurance (O-C) | Electrical | 5.000.000 cycles (AC21 - AC22) |
| Noise level at activation | | <30 dBA |
| Operating temperature | | -5°C to +55°C |
| Storage temperature | | -40°C to +60°C |
| Tropicalization (IEC 60068-1) | | Treatment 2 (relative humidity of 95 % at 55°C) |

Weight (g)

High-performance impulse relays

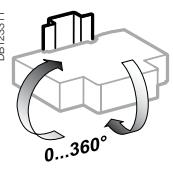
| Type | iTL+ |
|------|------|
| 1P+N | 70 |

DB123309



Clip on DIN rail 35 mm.

DB123311



Indifferent position of installation.

DB123313

