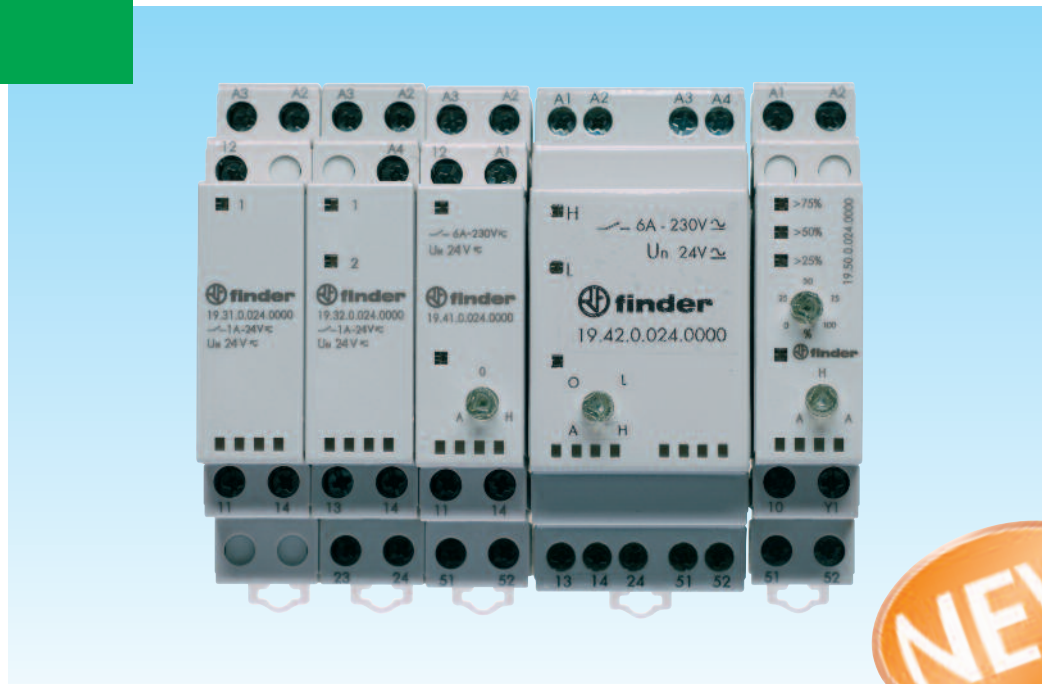


19 SERIES



Override & Status indicating modules 1-5 A

FINDER 19 SERIES has been extended with 5 new modules ideally suited for use in conjunction with Building Management Systems (BMS), Direct Digital Controllers (DDC), or in combination with PLC's.

These modules are used as an interface between the BMS, DDC, PLC and the connected equipment.

Override control modules can override the BMS, DDC or PLC controller and permit the equipment to be forced into the desired operational status. In the "Automatic" position, signals from the BMS, DDC or PLC-system will be transferred, unchanged, to the equipment. But, in the "Hand" position it is possible to force the equipment to the desired status, which is indicated by an LED (or LEDs for type 19.50) on the module's fascia.

Status Indicating modules are LED indicating modules which show the status of the input signal, but where the LED colour has been pre-set to match the importance or urgency of the signal. Presetting the colour to Red, Green or Blue is by a dip-switch on the rear face of the module, before mounting. An output CO or NC contact, following the input, is provided for control or status feedback.

There are 5 different types of module available:

Status indicating modules

1. Type 19.31, 1-channel input module
2. Type 19.32, 2-channel input module

Override control modules

3. Type 19.41, On/Off output module
4. Type 19.42, Low/High output module

Analogue Override control module

5. Type 19.50, Analogue output module 0-10V

Benefits of the Override & Status indicating modules product line:

- Very flexible due to the various possibilities of combination
- Clear indication of the signal or equipment status
- Easy to operate selection switches and potentiometers
- Feedback contact; signals when switch is not in "Auto" position.
- Compact housing: 2 widths, 17.5 or 35 mm
- Uniform unit depth
- Space saving, compact design
- 35 mm rail mounting
- Full width marker tags available for easy text labeling

Type 19.31 1-channel input module

General

Digital input module providing visual indication of the input signal status and immediate indication of its importance or urgency according to the colour of the LED.

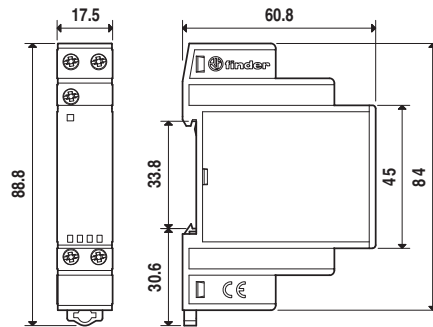
A change-over output contact, following the input status, provides for control or status feedback. Commonly used in building management systems.

Application examples:

- Status reports of heating installations, pumps, blowers or motor groups.
- Error reports like danger of frost or blocked filter.
- Fire alarm.

Ordering code: 19.31.0.024.0000

19.31



LED indication

The LED colour is selected by the dip-switch on the rear face of the module, prior to mounting on the 35 mm rail.

The colour is determined by the system designer according to the urgency or importance of the signal.

Commonly, the following levels of importance or urgency are assigned to the Red, Green and Blue colours.

Red LED (R)	Error
Green LED (G)	In operation
Blue LED (B)	Alarm (Fire or similar)

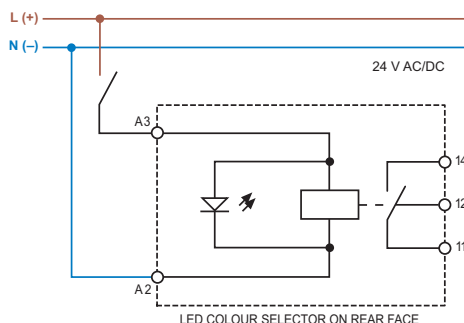
Output configuration

Contact	1 CO, 1 A 24 V AC/DC
---------	----------------------

Connections

A3-A2	24 V AC/DC (switched)
11-12-14	24 V AC/DC 1 A

Wiring diagram



Module width

17.5 mm

These modules provide an easy to view front panel whereby the LEDs of several adjacent modules are all at the same level.

As a consequence, it is possible to quickly assimilate the status and level of importance of a great many signals at a single glance.

Type 19.32 2-channel input module

General

Digital input module providing visual indication of the input signal status and immediate indication of its importance or urgency according to the colour of the LED.

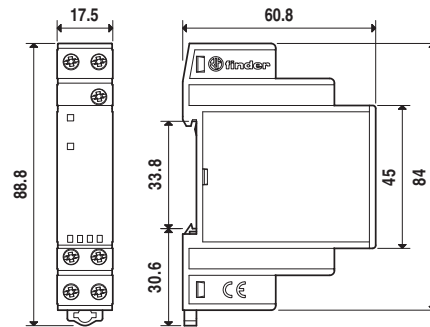
A normally open output contact follows the input status, providing for control or status feedback. Commonly used in building management systems.

Application examples:

- Status reports of heating installations, pumps, blowers or motor groups.
- Error reports like danger of frost or blocked filter.
- Fire alarm.

Ordering code: 19.32.0.024.0000

19.32



LED indication

The LED colour is selected by the dip-switch on the rear face of the module, prior to mounting on the 35 mm rail.

The colour is determined by the system designer according to the urgency or importance of the signal.

Commonly, the following levels of importance or urgency are assigned to the Red, Green and Blue colours.

Red LED (R)	Error
Green LED (G)	In operation
Blue LED (B)	Alarm (Fire or similar)

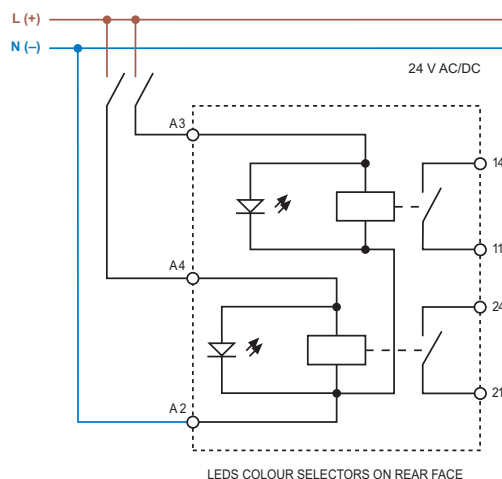
Output configuration

Contacts	2 NO, 1 A 24 V AC/DC
----------	----------------------

Connections

A3-A2	24 V AC/DC (switched)
A4-A2	24 V AC/DC (switched)
11-14	24 V AC/DC 1A
21-24	24 V AC/DC 1A

Wiring diagram



Module width

17.5 mm

These modules provide an easy to view front panel whereby the LEDs of several adjacent modules are all at the same level.

As a consequence, it is possible to quickly assimilate the status and level of importance of a great many signals at a single glance.

Type 19.41 On/Off output module

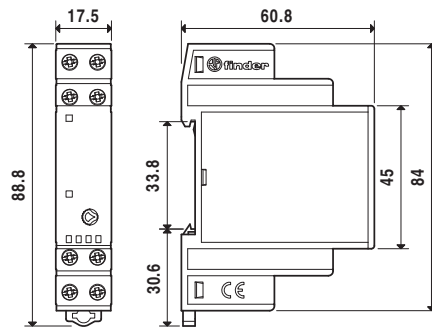
General

Digital On/Off output module intended to permit the automatic control of pumps, blowers or motor groups. Or, in the case of installation, maintenance or failure, to permit the load equipment to be turned "Off" or controlled under "Hand" control.

In position "H" (Hand control) or "O" (Off), a yellow LED will flash and the feedback contact will open, to indicate that the module is not in the "Automatic" position.

Ordering code: 19.41.0.024.0000

19.41



LED indication

Green LED	In operation
Yellow LED	Flashing if not in "Automatic"

Control

Selection switch (grey)	Selection switch - Hand/Off/Automatic
-------------------------	---------------------------------------

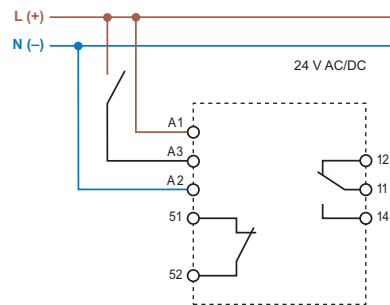
Output configuration

Contact	1 CO, 5 A 230 V AC
---------	--------------------

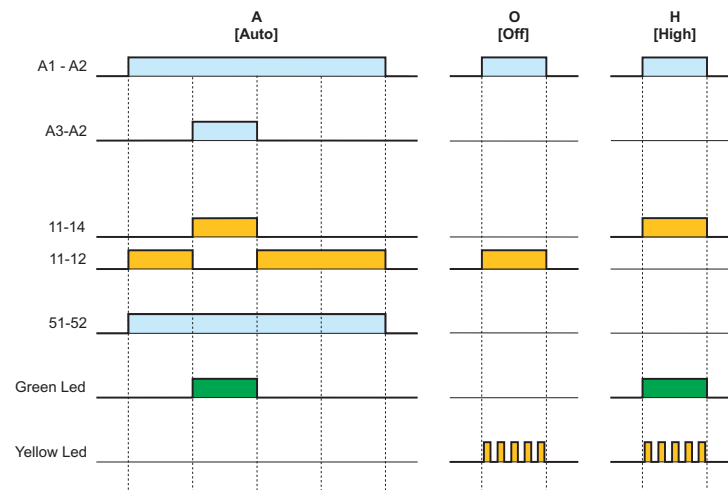
Connections

A3-A2	24 V AC/DC switched
A1-A2	24 V AC/DC
11-12-14	230 V AC 5 A
51-52	24 V AC/DC feedback contact (closed in "Automatic")

Wiring diagram



Function



Module width

17.5 mm

Type 19.42 Low/High output module

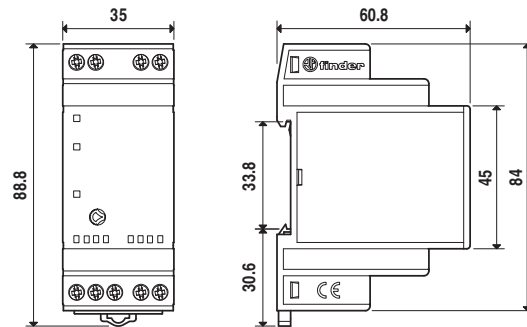
General

Digital output module intended to permit the automatic control of two-speed pumps, blowers or motor groups. Or, in the case of installation, maintenance or failure, to permit the load equipment to be turned "Off" or to run in "Low speed" or "High speed" under "Hand" control.

In position "L" (Low), "H" (High) or "O" (Off) a yellow LED will flash and the feedback contact will open to indicate that the module is not in the "Automatic" position.

Ordering code: 19.42.0.024.0000

19.42



LED indication

(L) Green LED	Low speed
(H) Green LED	High speed
Yellow LED	Flashing if not in "Automatic"

Control

Selection switch (grey)	Selection switch - Low/Off/High/Automatic
-------------------------	---

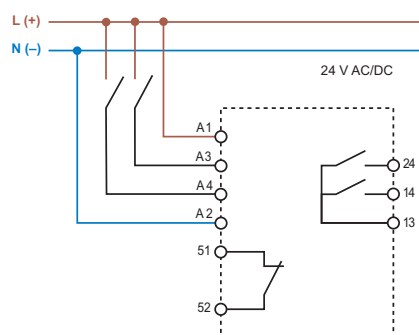
Output configuration

Contact	1 CO, 5 A 230 V AC
---------	--------------------

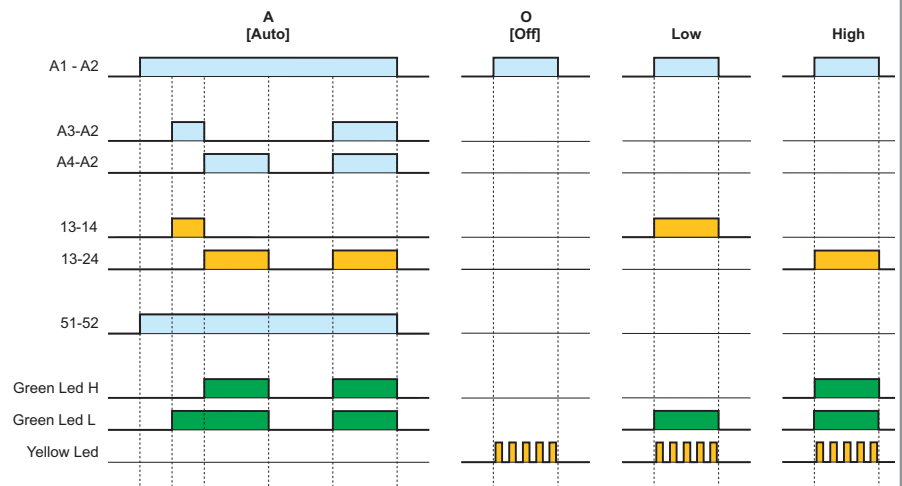
Connections

A3-A2 and A4-A2	24 V AC/DC switched
A1-A2	24 V AC/DC
13-14-24	230 V AC 5 A
51-52	24 V AC/DC feedback contact (closed in "Automatic")

Wiring diagram



Function



Module width

35 mm

Type 19.50 Analogue output module 0-10V

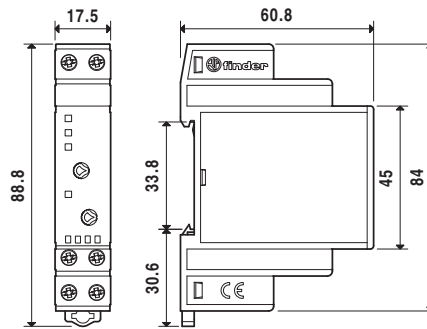
General

Analogue output module intended to provide, by the selection switch on the front panel, a 0-10 V output, automatically or by hand. With the selector switch in position "A" (Automatic) the 0-10 V signal is derived from the controller. In position "H" (Hand) the controller signal is ignored and the 0-10 V signal is derived directly from the potentiometer setting on the fascia of the module. This would, for example, permit the direct control of proportional valves under exceptional circumstances or where the automatic controller has failed. The level of the 0-10 V output signal is displayed by 3 green LEDs, set at >25%, >50% and >75%.

In position "H" (Hand control) a yellow LED will flash and the feedback contact will open to indicate that the module is not in the "Automatic" position.

Ordering code: 19.50.0.024.0000

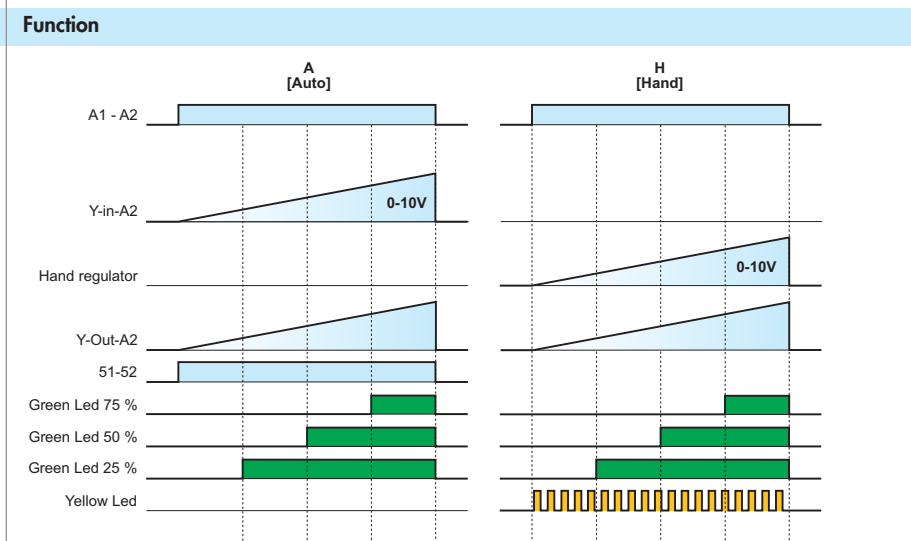
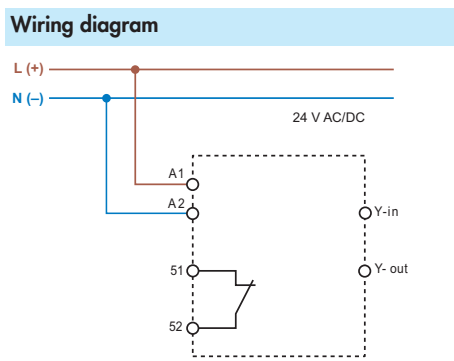
19.50



LED indication	
Green LED 25%	output control of the 0-10 VDC signal is 2.5 V or more
Green LED 50%	output control of the 0-10 VDC signal is 5 V or more
Green LED 75%	output control of the 0-10 VDC signal is 7.5 V or more
Yellow LED	Flashing if not in "Automatic"

Control	
Selection switch (grey)	Selection switch - Hand / Automatic
Potentiometer (blue)	0-10 VDC output control (only during Hand control)

Connections	
A1-A2	24 V AC/DC
11-12	0-10 V DC output control
51-52	24 V AC/DC feedback contact (closed in "Automatic")



Module width	17.5 mm
--------------	---------