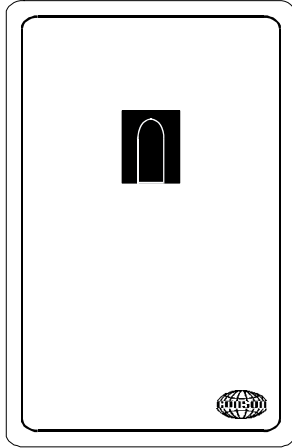


IR Preamplifier type CP 72H



Infrared preamplifier white
FUGA 77 x 50 mm
EAN-NO. 5703513006563

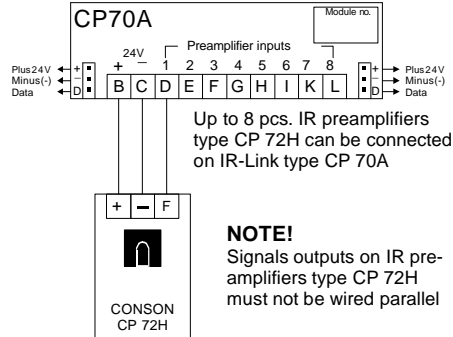
Product description

IR preamplifier type CP 72H is specially developed for remote control with 38KHz IR remote controls from CONCEPT 2000 in connection with IR-Link type CP 70A. IR preamplifier receives 38KHz signals from the IR remote control and transmits them via the cable to the decoder module CP 70A.

Installation guide.

IR preamplifier type CP 72H is mounted on plate or built-in box for plug with switch. Connect low current to IR-Link type CP 70A, and check connection before voltage is supplied for the module. CP 70A must have external power supply from type CP 11 (18-28 V DC).

Connection of IR preamplifier type CP 72H on IR-Link type CP 70A



NOTE! In connection with installation in rooms with neon lights problems with the receipt of IR signals from remote controls might occur, because neon light also sends out infrared light which is received by the preamplifier (Fig. 1). In this case the preamplifier must be placed another place or you can mount a mechanical shield (Fig. 2).

Fig. 1

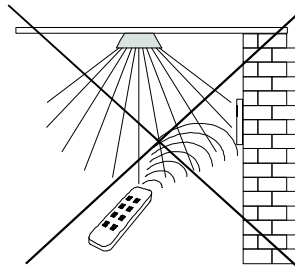
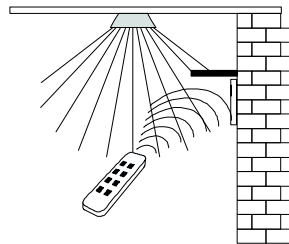
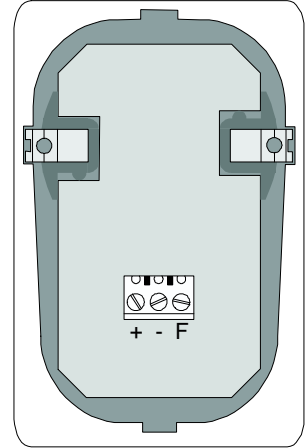


Fig. 2



Terminals
IR preamplifier type CP 72H



Terminals

Low current

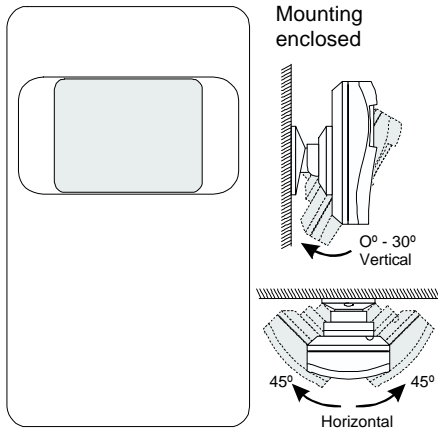
Terminals	Symbol	Description
Terminal 1	+	Plus 24V DC (+)
Terminal 2	-	Minus (-)
Terminal 3	F	Preamplifier output

Technical data type CP 72H:

Voltage	24 V DC
Output voltage	5V DC
Installation angle	+/- 35°
Frequency	38 KHz
Cable length max. (without screen).	100 m
Dimensions (HxW)	77 x 50 mm
Installation	In built-in box/plate for plug with switch

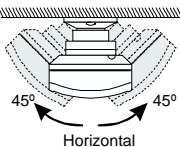


PIR detector type CP 73 and CP 74



Mounting enclosed

0° - 30°
Vertical



Movement detector with opening switch (NC) for alarm function **type CP 73**
EAN-No. 5703513007249

Movement detector with closing switch (NO) for light control **type CP 74**
EAN-No. 5703513007379

Product description

Movement detector (PIR) type CP 73 and CP 74 are developed for use in combination with light control system CONCEPT 2000.

PIR detector type CP 73 with opening switch (NC):

CP 73 is used for control of the alarm function in connection with Time-Link type CP 70D (see product information), but can also be used for light control. In this case the opening switch (NC) must be connected the control input on Switch-Link type CP 20. The Switch-Link's input must be inverted to be able to get the reversed function for control of the light (NC).

PIR detector type CP 73 with closing switch (NO):

CP 74 is used for light control of active modules type CP 24 og CP 31 (time function). At relay module CP 24 the closing switch (NO) from PIR detector CP 74 can directly be connected the direct control inputs. The relay module must be programmed correspondingly (automatic step). The control of dimmer module type CP 31 is done via the data bus. In this case the switch (NC) must be connected Switch-Link type CP 20.

Installation guide

PIR type CP 73 and CP 74 can be mounted on plane wall and in corners. Always mount on a solid, stabile surface. For mounting the included mounting hardware (BR1) is used, which after mounting gives the opportunity to adjust the sight direction of PIR-detector (see left). PIR type CP 73 and CP 74 are not sensitive to air turbulence and radio noise, but it is still recommended in order to avoid false alarms that PIR is **NOT** pointing to heating appliances, ventilators, sources for strong light and windows with direct sunlight. Keep low current cord separated from mains current cables. The front is removed by loosening the screw at the bottom. Put up the mounting hardware on the spot and at the height, where PIR is to be mounted. Subsequently mount the backside (with the print) on the mounting hardware. At mounting on plane wall without mounting hardware, the backside is put up directly on the wall. Here the blanks at the top and bottom in the backside are used. At right mounting, the blanks in the tilted edges of the sides are used. Fix the backside real good, in order to avoid vibrations.

Connection of cord:

The cords can be led through one of the cord blanks in the tilted edge at the bottom or through the blank under the circuit board, with which the cord can be taken in at the ceiling and be taken down along the backside of the cabinet. Connect relay NC (CP 73) or NO (CP 74) to control input of CONCEPT 2000. Connect 24 V DC to + and - terminals and check for correct polarity.

Vertical setting:

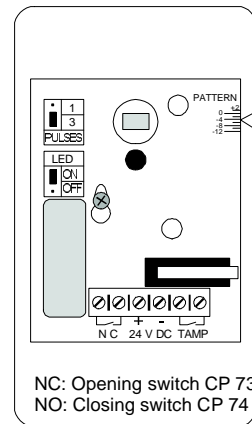
The scale on the right side of the circuit board opposite the small arrow in the backside roughly indicates the vertical angle in degrees between PIR's horizontal line and the upper lay of rays. It is fast and easy to adjust from +2 degrees to -12 degrees downwards, dependent on installation height and coverage required.

PIR type CP 73/74 is set on -4 degrees from the factory. Set the circuit board vertically by loosening the screw in the centre of the circuit board. Move it up or down and fasten the screw again.

Pulse counter:

PIR type CP 73 and CP 74 can with a jumper be set to 1 or 3 pulsations with changing polarity, before the relay is generated. Two pulsations provides increased protection against false detections, which is due to environmental disturbances, and should just be chosen for places, where the temperature do not reach more than 30° C. A pulsation completely disconnects the pulse counter. A pulsation must be chosen, when it is required that PIR must be activated by the first detected pulsation, and also in high-security installations where a quick "catch" is of great importance.

Terminals the PIR detectors



Terminals:

Low current

Terminal NC	Opening switch (NC) type CP 73
Terminal NO	Closing switch (NO) type CP 74
Terminal +	Plus 24V DC (+)
Terminal -	Minus (-)
Terminal TAMP	Sabotage switch, is used in connection with alarm function

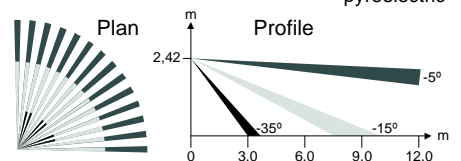
Technical data CP 73 and CP 74:

Low current

Voltage	24V DC
Current at 24V DC	15 mA
Power consumption at 24V DC	0,4 VA
Switch load CP 73 (NC)	max.100 mA/24V
Switch load CP 74 (NO)	max.100 mA/24V
Adjustable pulse counter	1 and 3 pulsations with changing polarity

Optical data

Visual field Lens A 90° wide angle, 34 rays in 3 layers Coverage max. 12x12 m
Detector double element, low-volume pyroelectric



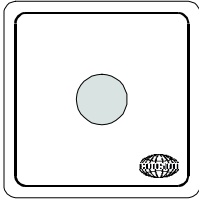
Mechanical data

Temperature range	-10...+50°C
Weight	95 gram
Installation	on wall and in corners
Installation height	max. 3,60 m
Dimensions (WxHxD)	60x104x32 mm

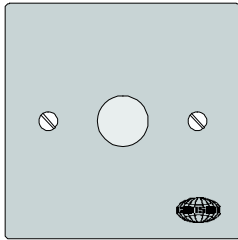


Operation and control accessories

Light sensor with on/off pulse or constant signal type CP 75H and CP 75S.



Light sensor - white FUGA 50x50mm for indoor installation type CP 75H
EAN-No. 5703513007409



Light sensor - fume tight 60x60mm for outdoor installation type CP 75S
EAN-No. 5703513007539

Product description

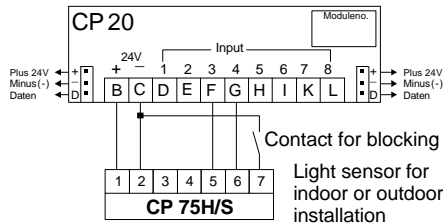
The light meter type CP 75 is developed for Conson's overall product programme. This light meter can therefore be used for both the light control system CONCEPT 2000 and HMS 2000 and the universal control print type 4004-2 for our professional light dimmers. At light control system CONCEPT 2000 the light sensor is used as twilight relay or for daylight dependent "Cut off" control of light switches or groups. Light sensor type CP 75 provides many possible applications. The operation range is from 0-800 Lux and the output voltage of analog outputs is linear over the entire measuring range. The light meter CP 75 has the following outputs:

- Output with 4,75-0,75V DC (0-800Lux) for Light dimmers type DC 440/600/1000 and Ballast controllers type BC 0-10A/P
- Output with 1,0-13,5V DC for universal control print type 4004-2
- ON minus(-), pulse or constant output
- OFF minus(-), pulse or constant output

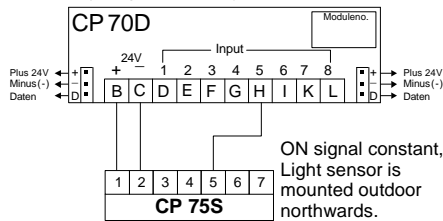
In addition it is possible to block the ON and OFF outputs. This function ensures that manual override is always possible, and that a clock or anything else can block for the ON and OFF control. For blocking constant minus(-) is used. The OFF output turns on automatically at blocking.

Connection example

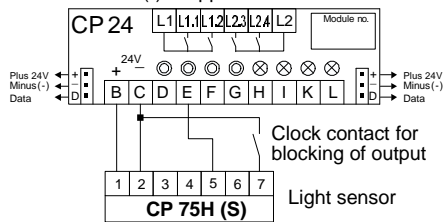
Connection of "Cut off" control of active modules with pulse or constant on/off signal. Active modules must be programmed for this function.



Connection of twilight relay function in connection with Time-Link type CP 70D (ON signal constant). Outdoor lighting is always turned off in the period 24⁰⁰-6⁰⁰ (see product info).



Connection of twilight relay function directly on control input of relay module type CP 24. Input on CP 24 is programmed with special function "Help" (SF1-SF4). External clock for blocking with constant minus(-) is applicable.

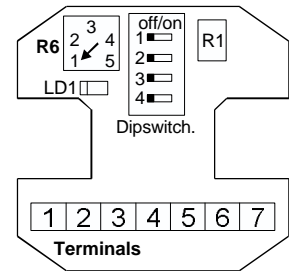


The table shows settings of light level for ON/OFF- outputs (is carried out on R6)

Setting of R6 *	Light levels for on/off signals	
	ON-signal at	OFF-signal at
1	app. 940 Lux	app. 1280 Lux
2	app. 900 Lux	app. 1200 Lux
3	app. 670 Lux	app. 740 Lux
4	app. 70 Lux	app. 95 Lux
5	app. 2 Lux	app. 9 Lux

* See top right-hand fig. on this page

Connection print on the backside



Terminals:

Low current

- Terminal 1 Plus 24V DC (+)
- Terminal 2 Minus (-)
- Terminal 3 Output 4,75-0,75V DC (0-800Lux)
- Terminal 4 Output 1,0-13,5V DC (0-800Lux)
- Terminal 5 Output for ON signal (-)
- Terminal 6 Output for OFF signal (-)
- Terminal 7 Blocking input (-) blocking with constant signal

The table shows settings of Dipswitch for function of ON/OFF- outputs

Setting	Output function	
Dipswitch	ON output	OFF output
2- OFF	without delay	without delay
3- OFF	pulse signal	-
4- OFF	-	pulse signal
2- ON	app.1m delay	app.1m delay
3- ON	constant signal	-
4- ON	-	constant signal

Technical data CP 75H and CP 75S:

Low current

- Voltage 24V DC
- Current at 24V DC 12 mA
- Power consumption at 24V DC 0,22 VA
- Load on on/off outputs max.75 mA
- Impulse time on/off outputs app. 1 sec.
- Cable dimension e.g. 0,6mm Ø
- Cable length R max. 1K-ohm

Mechanical data

- Temperature range -5...+35°C
- Weight CP 75H 40 gram
- Weight CP 75S 50 gram
- Installation on built-in box or foundation for switch

Dimensions (WxHxD):

- CP 75H - FUGA 50x50x30 mm
- CP 75S - fume tight 60x60x35 mm



Monitor and operation panels

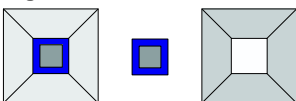
Concept2000 monitor panel system

In connection with the development of the intelligent installation system CONCEPT 2000 Conson has also developed a new operation-friendly monitor panel system. The panels are used for surveillance and operation of switches for lighting, heating control, doors, windows etc. The innovation in this system is that the indication diode and operation buttons are placed in the same pyramidal-designed unit. This unit is then placed on the "building drawing" in the room, in which the switch is placed.

All switches (12,5 x 12,5 mm.) are connected to a connection print with a cord set with a plug in both ends. If one of the buttons must carry out general functions such as "all on", "all off", "partly off" it must be connected to the inputs 16-19, as these button functions apply for several modules these also use more current than the toggle function. The print has also light test as standard. Special operation elements such as potentiometer and key switch can be built in.

The monitor panel is used in situations, where a central operation is required together with the request for a quick creation of an overview of lighting status, heat, airconditioning. Due to the large flexibility in the system, a large number of combination possibilities can be worked out. The frames are available in 49 different colours and in all sizes. The colour of the switch and LED is available in 6 different colours (same colour scale as the CP 2500 batch) and the LEDs in the switches in the colours red, green and yellow. The silk print is available in 22 colours, so the entire panel fits into the surroundings, in which it is placed. Changes of the panel is possible, as switches, collars and cord set can be reordered and connected the connection print.

Original sizes 1:1 front view

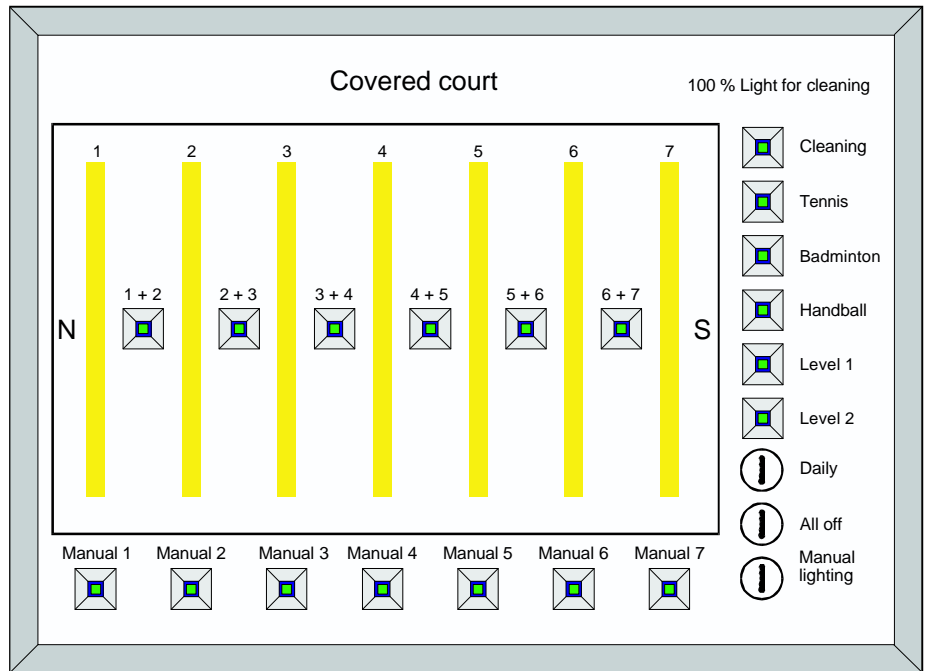


Panel depth with switches: 54 mm

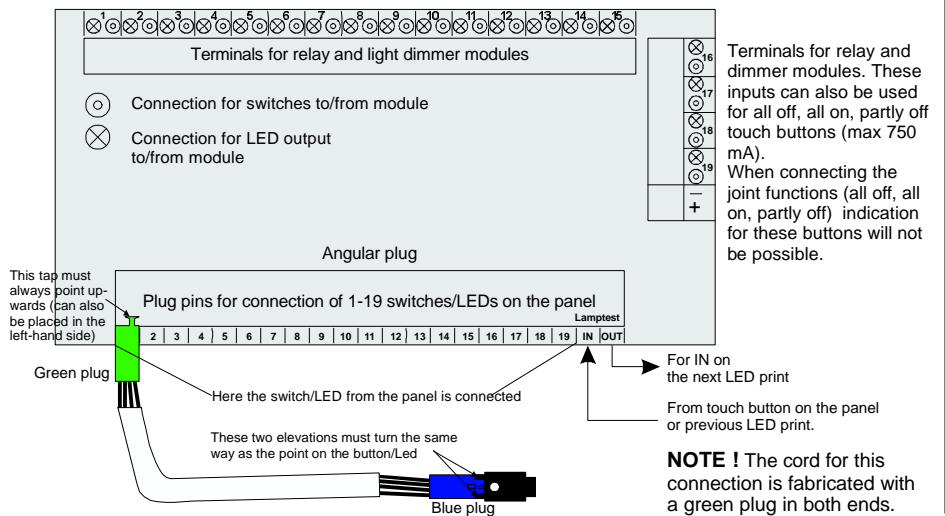
Requisition for further material at one of our suppliers, before you start planning your monitor panel. Or get a firm offer.

18.08.97

Below this text a possible solution with Conson's new monitor panel is shown



Connection print in the monitor panel



Monitor and operation panels

Monitor panels

Type EAN-no.

CP 9015 5703513050047

Standard frame incl. Back plate complete in colour white- or aluminium nature - depth 52 mm. Min. dimensions: 120x190mm (with max. 19 buttons). Max. dimensions: 1000x2000mm.

CP 9020 5703513050177

Indication panel standard in colour white- or aluminium nature incl. Film expenses for silkprint.

CP 9021 5703513050207

Touch button inset with LED in colour green, red or yellow incl. cord and print part.

Collar for touch buttons is available in white, black, turquoise, pink, blue or grey.

CP 9022 5703513050597

LED-mini 5mm in colour green or red incl. cord and print part.

NOTICE! LED colour and collar colour must be stated when ordering.

CP 9050 5703513050337

Key switch with or without return spring.

CP 9060 5703513050467

Hand potentiometer incl. installation (type 4103 or DC 46H).

CP 9090 5703513050917

Surcharge for special panel colour besides standard - can be enamelled according to the customer's request.

CP 9091 5703513050917

Surcharge for special frame colour besides standard - available in 49 different colours.

CP 9092 5703513050887

Surcharge for silk print (standard colour blue) - available in 12 different colours (price depends on panel size).

Calculation example "it is so easy"

In the example to the right, a monitor panel is shown, which is combined of standard components.

There are a lot of combination possibilities, but regardless of the combination chosen we have made it so simple by having a fixed price on the frame (type CP 9015) and indication panel (type CP 9020) regardless of size.

Price example:

Pcs.	Type	Description	Price
1	CP 9015	Standard frame
1	CP 9020	Indication panel
28	CP 9021	Buttons with LED
1	CP 9092	Surcharge for silk print
Total price		

Total price is excl. working drawing and possible surcharge for special frame and panel colour.

Generally

The graphic picture, which is silk pressed on the indication panel, is made by using the film which results from a working drawing (standard silk print colour is Conson's blue RAL-no. 5015). In order to make a satisfactory silk print, clear and distinct lines are required (min. 0,3 mm), symbols etc. Texts must also be distinct (require no "outline"). In order to make it clear, all unnecessary lines in the architect's drawings are erased.

Drill marks (kryds 3x3mm) for mounting are placed in the centre, where button inset or LED-mini must be placed on the drawing.

Notice! The crosses for button or LED position must not be too large to be covered, when buttons or LED are mounted.

The surface of the monitor panel and the silk print stand cleaning without the quality being lowered.

Working drawing

To obtain the high quality, which is required in order to the silk print distinct and clear, we would like to undertake the design of the working drawing, and of course send proof drawings for

approval before printing.

To reduce the drawing work 3,5" diskettes in various file formats can be sent to us, so that possible architectural drawings can be imported and adjusted. But if you have the opportunity to make a working drawing yourself and send the file of the working drawing to us, we would be glad to assist you with the proofreading. The working drawing must be in the ratio 1:1. See the working drawing example below.

Frame incl. buttons seen sideways



Panel frame is divided as follows:

- 1 pcs. front frame (D 26mm), mounted with the monitor panel and the buttons (LED).
- 1 pcs. rear frame (D 26mm) incl. back plate and connection print.

Deeper rear frame is available at request.

For mounting on the wall (building in) the rear frame must be built in, so that only the front frame is visible.

