

## Product Description

$\mu$-Processor controlled amplifier for 3 sets of photoelectric sensors, type MOFTR, MKFTR, MIFTR or MHFTR. Utilising an 11-pin cirkular plug for easy connection, outputs freely selectable for NPN/PNP or NO/NC. Self-
diagnostics for system test. Protected against short-circuits, reverse wiring or cross talk from adjecent photoelectrics. Multi-voltage power supply. Sensitivity is individually adjustable for each set of photoelectrics.

- $\mu$-Processor controlled
- Amplifier unit for 3 sets of photoelectrics
- 3 independent outputs
- NPN/PNP both NO or NC selectable
- Self-diagnostic functions
- Alignment failure indication
- Multivoltage 12 to 30 VAC/DC
- Modulated and synchronized light
- Adjustable sensitivity for each channel
- LED indications: supply, outputs, signal quality
- 11-pin plug-in housing
- For 115 or 230 VAC use power supplys S1430 PWS115 or S1430 PWS230

Ordering Key
S14 30 UAP 912
Type
Special function
Output type
Power supply


Power supply

## Type Selection

| Plug type | Ordering no. <br> Supply: 12-30 VAC/DC | Ordering no. <br> Supply: 115 VAC | Ordering no. <br> Supply: 230 VAC |
| :---: | :---: | :---: | :---: |
| Circular, 11 pins | S 1430 UAP 912 | S 1430 PWS 115 Power Supply for S 1430 UAP 912 | S 1430 PWS 230 Power Supply for S 1430 UAP 912 |

## Specifications

| Rated operational voltage $U_{B}$ pins 2 \& 10 DC AC | $\begin{aligned} & 10.8 \text { to } 33 \text { VDC } \\ & 10.8 \text { to } 33 \text { VAC, } 45 \text { to } 65 \mathrm{~Hz} \end{aligned}$ | Current Output resistance | $\leq 300 \mathrm{~mA}$ short-circuit protected $10 \Omega$ |
| :---: | :---: | :---: | :---: |
| Rated operational power |  | Receiver | Rx1: Pin 4 |
| AC supply | 4 VA |  | Rx2: Pin 7 |
| DC supply | 3 W |  | Rx3: Pin 8 |
| Power ON delay ( $\mathrm{t}_{\mathrm{v}}$ ) | < 300 ms | Supply voltage (open loop) | Shield: Pin 5 (common) 5 VDC |
| Output function | NPN and PNP switching Make and break function DIP-switch selectable | Short-circuit current | 10 mA |
|  |  | Input resistance | $470 \Omega$ |
|  |  | Sensitivity (\% of $\mathrm{S}_{\mathrm{n}}$ ) | - 2 ranges, <br> DIP-switch selectable <br> - low sensitivity (25\%) <br> - high sensitivity (100\%) <br> - Sensitivity adjustment with $270^{\circ}$ : <br> Turn knob on CH 1, 2, 3 |
| Output current Continuous ( $\mathrm{I}_{\mathrm{e}}$ ) Short-time (I) | 100 mA per output 100 mA max. |  |  |
|  |  |  |  |
|  |  |  |  |
| Min. load current ( $\mathrm{I}_{\mathrm{m}}$ ) | 0.5 mA |  |  |
| OFF-state current ( $I_{r}$ ) | Max. $100 \mu \mathrm{~A}$ |  |  |
| Voltage drop ( $\mathrm{U}_{\mathrm{d}}$ ) | $\leq 3.5$ VDC | Note: | - Maximum range indi- |
| Protection, outputs | Reverse polarity, short-circuit, transients |  | cated on photoelectric switch data sheet in high |
| Supply to photoelectric switch Emitter |  |  | sensitivity range only |
|  | Tx1: Pin 1 |  | - Operation within low |
|  | Tx2: Pin 9 |  | sensitivity range, increa- |
|  | Tx3: Pin 6 |  | ses ambient light and |
|  | Shield: Pin 11 (common) |  | crosstalk immunity |
| Supply voltage (open loop) | 7 V square wave |  |  |

## Specifications (cont.)

Operating frequency (f)

| Light/dark ratio 1:1 | 16 Hz |
| :---: | :---: |
| Response time |  |
| OFF-ON ( $\mathrm{toN}_{\text {O }}$ ) | 20 ms |
| ON-OFF ( $\mathrm{t}_{\text {OFF }}$ ) | 20 ms |
| Indication |  |
| Supply ON | LED, green |
| Output ON | LED, yellow |
| Signal quality | LED, red |
| Environment |  |
| Overvoltage category | III (IEC 664) |
| Degree of protection | IP 20 (IEC 529, 947-1) |
| Pollution degree | 3 (IEC 664/664A, 947-1) |
| Temperature |  |
| Operating | $-20^{\circ}$ to $+50^{\circ} \mathrm{C}\left(-4^{\circ}\right.$ to $\left.+122^{\circ} \mathrm{F}\right)$ |
| Storage | $-50^{\circ}$ to $+85^{\circ} \mathrm{C}\left(-58^{\circ}\right.$ to $\left.185{ }^{\circ} \mathrm{F}\right)$ |
| Weight | 150 g |

## Operation Diagram

Dimensions


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## Procedure for Test Functions (Dip-switch Selection)

## Transmitter test

 (pin 5 in the up position) When pin 5 is placed in the up position all yellow and red LED's on the front of the unit will flash simultaneously. Once the test is completed (approx. 3 scans) and a wiring fault is detected, such as reverse polarity or short-circuit, the transmitter that has the fault condition will be indicated by the red LED being continuously ON. If a fault condition is not existing then only the yellow LED will be ON. If a fault exists, correct the fault condition and then repeat the test, this will ensure proper wiring has been done. Always reset pin 5 for normal operation of system when testing completed.Receiver test (pin 6 in the up position) When pin 6 is placed in the up position all yellow and red LED's on the front of the unit will flash simultaneously. Once the test is completed (approx. 3 scans) and a wiring fault is detected, such as reverse polarity or short-circuit, the receiver that has the fault condition will be indicated by the red LED being continuously ON. If a fault condition is not existing then only the yellow LED will be ON. If a fault exists, correct the fault condition and then repeat the test, this will ensure proper wiring has been done. Always reset pin 6 for normal operation of system when testing completed.

Function test
(pin 5 and 6 in the up position) When pin 5 and 6 are both placed in the up position (simultaneously) the yellow and red LED's on the front of the housing will begin to flash simultaneously and then the LED's will cycle from channel

## LED Indication



1 to channel 2 and then to channel 3. Once the complete system scan is done the indication of the system condition will be displayed (see below). System test will continue until pins 5 and 6 are reset.

## Wiring Diagrams



## Interface



6IODC
DIN-rail interface
(DIN EN 50 035, EN 50 022)

## Power Supply



S 1430 PWS ....
Power supply for 12 VDC/1 A

## Accessories

- 11 pole circular socket
- Socket cover for S111
- Socket cover for S411
- Holding down spring
- Mounting rack
- Front panel mounting bezel
- Connection cable (2 plugs) $2 \times 6 / 6$ modular plugs
- Power supply for 115 VAC
- Power supply for 230 VAC
- DIN-rail interface

S111, S111A, S411, ZPD11
BB1
BB4
HF
SM13
FRS2
$2 \times 6 / 6 \mathrm{mod} .2 .0 \mathrm{~m}$
S 1430 PWS 115
S 1430 PWS 230
6IODC

## Delivery Contents

- Output connection cable $1 \times 6 / 6$ mod. 1.0 m
- Amplifier S 1430 UAP 912
- DIN-rail interface 6IODC
- Screw driver
- Packaging: cardboard box


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