

## Product Description

Amplifier relay for photoelectric switches types MOFR and MOFT. "S-System" plug-in housing. Autoadjusted sensitivity and power limit alarm
output (NPN). 2 frequencies for modulated light selectable on rotary switch. Break switching function on relay output.

- Amplifier relay for photoelectric switches
- Sensitivity automatically adjusted
- Modulated and synchronized light
- 2 selectable frequencies on rotary switch
- Break switching function
- Supply voltage: 24 VDC, 24 VAC, 115 VAC, 230 VAC
- Output 8 A/250 V SPDT relay and 30 mA NPN
- LED-indications for relay, power limit and power supply ON
- Plug-in module


## Type Selection

| Ordering no. <br> Supply: 24 VDC | Ordering no. <br> Supply: 24 VAC |
| :--- | :--- |
| S 1425156724 | S 1425156024 |

## Output Specifications



| Ordering no. <br> Supply: 115 VAC | Ordering no. <br> Supply: 230 VAC |
| :--- | :--- |
| S 1425156115 | S 1425156230 |

## Supply Specifications

| Power supply AC types $\left(\mathrm{U}_{\mathrm{B}}\right)$ Rated operational voltage | Overvoltage cat. III (IEC 60664) |
| :---: | :---: |
|  |  |
| through pins 2 \& 10230 | $230 \mathrm{VAC} \pm 15 \%, 45$ to 65 Hz |
| 115 | $115 \mathrm{VAC} \pm 15 \%, 45$ to 65 Hz |
| 024 | $24 \mathrm{VAC} \pm 15 \%, 45$ to 65 Hz |
| Voltage interruption | $\leq 40 \mathrm{~ms}$ |
| Rated insulation voltage ( $\mathrm{U}_{\mathrm{i}}$ ) | 250 VAC (cont./elect.) |
| Rated impulse withstand volt. | 4 kV ( $1.2 / 50 \mu \mathrm{~s}$ ) |
| Dielectric voltage | $\geq 2.0 \mathrm{kVAC}$ (rms) |
| Power supply DC types ( $\mathrm{U}_{\mathrm{B}}$ ) Rated operational volt. 724 Pin 2 positive \& pin 10 negative | $24 \mathrm{VDC} \pm 15 \%$ |
| Rated insulation voltage ( $\mathrm{U}_{\mathrm{i}}$ ) | None |
| Rated impulse withstand volt. | 800 V (1.2/50 ms) |
| Dielectric voltage | None |
| Rated operational power AC supply DC supply | $\begin{aligned} & 5 \text { VA @ } 230 \text { VAC } \\ & 3 \text { W @ } 24 \text { VDC } \end{aligned}$ |

## General Specifications

| Transmitter | Pins $5 \& 7$ (pin 7 negative) |
| :--- | :--- |
| Supply voltage (open loop) | 8 V square wave |
| Current | $\leq 200 \mathrm{~mA}$ short-circuit |
|  | protected |
| Output resistance | $27 \Omega$ |

## Operation Diagram



## Mode of Operation

S 1425 has a constant output To achieve optimum performlevel on pins 5-7. The regula- ance by the auto-adjust systor on the receiver (pins 6-8) keeps a constant amplitude on the input to the PLL device. Therefore a slow damping of the signal will not change the status of the relay. A fast damping of the signal (approx. $80 \%$ ) will change the status of the relay (beam interrupted). If the damping is maintained, the regulator will increase the tem, the following operating ranges must be obtained:

MOFT5:
Distance approx. 1 to 2.5 m
MOFT20:
Distance approx. 2.5 to 7 m
MOFT50:
Distance approx. 7 to 20 m amplitude on the PLL device, and normal function is obtained.

## Wiring Diagrams



## Accessories

| - 11 pole circular socket | S111, S111A, S411, ZPD11 |
| :--- | :--- |
| - Socket cover for S111 | BB1 |
| - Socket cover for S411 | BB4 |
| - Hold down spring | HF |
| - Mounting rack | SM13 |
| - Front panel mounting bezel | FRS2 |
| - Potentiometer knob lock | PL1 |

## Delivery Contents

- Amplifier
- Packaging: styropor box

