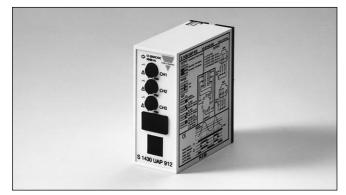
Photoelectrics Amplifier, µ-Processor Controlled Type \$1430, 3 Inputs/3 Outputs





Product Description

μ-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. Selfdiagnostics 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.

Ordering Key	_ \$14 30 UAP 912
Туре	
Special function	
output type	

Type Selection

Plug type	Ordering no.	Ordering no.	Ordering no.
	Supply: 12 - 30 VAC/DC	Supply: 115 VAC	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 vo	ltage U⊾	Current	≤ 300 mA short-circuit		
pins 2 & 10 D	C 10.8 to 33 VDC C 10.8 to 33 VAC, 45 to 65 Hz		protected 10 Ω		
Rated operational pow AC supply	4 VA	Receiver	Rx1: Pin 4 Rx2: Pin 7 Rx3: Pin 8		
DC supply Power ON delay (t _v) Output function	3 W < 300 ms NPN and PNP switching	 Supply voltage (open loop) Short-circuit current 	Shield: Pin 5 (common) 5 VDC 10 mA 470 Ω • 2 ranges,		
Output function	Make and break function DIP-switch selectable	_ Sensitivity			
Output current Continuous (I _e) Short-time (I)	100 mA per output 100 mA max.	(% of S _n)	 DIP-switch selectable low sensitivity (25%) high sensitivity (100%) 		
Min. load current (I _m) OFF-state current (I _r)	0.5 mA Max. 100 μA	-	• Sensitivity adjustment with 270°:		
Voltage drop (U _d)	≤ 3.5 VDC	– Note:	 Turn knob on CH 1, 2, 3 Maximum range indicated on photoelectric switch data sheet in high 		
Protection, outputs	Reverse polarity, short-circuit, transients				
Supply to photoelectri Emitter Supply voltage (ope	Tx1: Pin 1 Tx2: Pin 9 Tx3: Pin 6 Shield: Pin 11 (common)	_	 sensitivity range only Operation within low sensitivity range, increa- ses ambient light and crosstalk immunity 		

- 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

Power supply

• For 115 or 230 VAC use power supplys S1430 PWS115 or S1430 PWS230



Specifications (cont.)

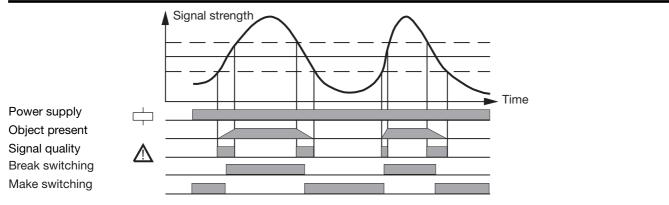
Operating frequency (f)	
Light/dark ratio 1:1	16 Hz
Response time	
OFF-ON (t _{on})	20 ms
ON-OFF (t _{OFF})	20 ms
Indication	
Supply ON	LED, green
Output ON	LED, yellow
Signal quality	LED, red
Environment	
Overvoltage category	III (IEC 664)
Degree of protection	IP 20 (IEC 529, 947-1)
Pollution degree	3 (IEC 664/664A, 947-1)
Temperature	
Operating	-20° to +50°C (-4° to +122°F)
Storage	-50° to +85°C (-58° to 185°F)
Weight	150 g

Truth Table

	Make switching			Break switching		
Object present	Yes	No	No	Yes	No	No
Dirt on lenses, misaligned or sensitivity too low		No	Yes ¹⁾		No	Yes ¹⁾
Output LED yellow	OFF	ON	ON	OFF	ON	ON
Level LED red	OFF	OFF	ON or flashing	OFF	OFF	ON or flashing
Output NPN/PNP	OFF	ON	ON	ON	OFF	OFF

¹⁾ Under normal operating conditions, the red level indication LED has to be OFF. The level indication LED will turn on shortly each time an object enters or exits the sensing zone, even if the photoelectric switch is correctly installed and adjusted.

Operation Diagram



Dimensions

