Reference: S142ARNN115

Selected parameters SYSTEM Photo-Amplifier HOUSING rectangular SENSING RANGE Dependend on sensor CONNECTION Plug and Socket OUTPUT RELAY SPDT MATERIAL Plastic Others SENSING RANGE Up to 50 m HOUSING 80 x 75 x 35 mm MATERIAL NORYL

Buy it at Electric Automation Network

Photoelectrics Amplifier Type S142A..
• µ-Processor controlled
• Amplifier relay for photoelectric switches
• Automatic or manual emitter power regulation
• Self-diagnostic functions
• Alignment help
• Timer option, S142B..
• Rated operational voltage:
24 VAC/DC, 24 VAC, 115 VAC or 230 VAC
• Output 8 A/250 VAC SPDT relay and 100 mA NPN
• LED indication: Automatic gain, output, level, emitter or receiver fault
Product Description
Ordering Key
S142 A RNN924
µ-Processor controlled amplifier for one set of photoelectricsensors, type MOFTR.Utilising an
11-pin circular plug for easy connection.
8 A SPDT relay output, NPN
/ PNP transistor output or alarm output. Diagnostics for sensor test during operation. Alignment help via LED or alternation of alarm output.Level indicationfor dirt accumulation. Manual or automaticemitterpower regulation.Twoemitter codes available for high neighbour immunity.
Type
Special function
Output type
(R-Relay, N-NPN, P-PNP, T-Test) Power supply
Type Selection
Function Ordering no. Ordering no.Ordering no.Ordering no. diameterSupply: 24 VAC/DCSupply: 24 VAC Supply: 115 VAC Supply: 230 VAC

NPN output & Test inputS142 A RNT 924 S142 A RNT 024S142 A RNT 115S142 A RNT 230
NPN output & Alarm output S142 A RNN 9241)S142 A RNN 0241)S142 A RNN 1151)S142 A RNN 2301)
PNP out., PNP alarm & TestS142 A PPT 924 S142 A PPT 115S142 A PPT 230
1) Amplifier replacement for S1420156xxx
Specifications
Rated operational voltage (UB)
Pins 2 & 10230 195 to 265 VAC, 45 to 65 Hz
115 98 to 132 VAC, 45 to 65 Hz
024 20.4 to 27.6 VAC, 45 to 65 Hz
924 20.4 to 27.6 VAC/DC Class 2
Rated operational power
AC supply 3.3 VA
AC/DC supply 1.6 VA / 1.4 W
Delay on operate (tV) < 300 mS
Outputs
Relay Rating (AgCdO)µ (micro gap)
Resistive loads AC1 8 A / 250 VAC (2500 VA) DC1 0.2 A / 250 VDC (50 W)
or 2 A 25 VDC (50 W) Electrical life (typical) AC1 > 100.000 operations
Transistor output data
Output current(Ie)< 100 mA @ 10-40 VDC (max. load capacity 100 nF)
Voltage drop(Ud)< 2,5 VDC @ 100 mA
Output function Make or break on DIP-switch
RelaySPDT
Transistor NPN / PNP, 100 mA,
10-40 VDC
AlarmNPN / PNP, 100 mA,
10-40 VDC
Delay on alarm 10 sec
Test input (Mute) NPNPNP
Emitter enabled> 5.0 VDC < VCC - 3 VDC Emitter disabled< 3.0 VDC > VCC - 5 VDC
Imax @ 40 VDC1 mA
Protection output
transistor Reverse polarity, short circuit and transients
Supply to sensors
Emitter Pins 5 & 7
Supply voltage (open loop) 15 V square wave
Current < 450 mA, short circuit protected
Output resistance 10 Ω
ReceiverPins 6 & 8
Supply voltage (open loop) 5 VDC Short-circuit current 10 mA Input resistance470 Ω
Specifications are subject to change without notice (27.06.2014) 1