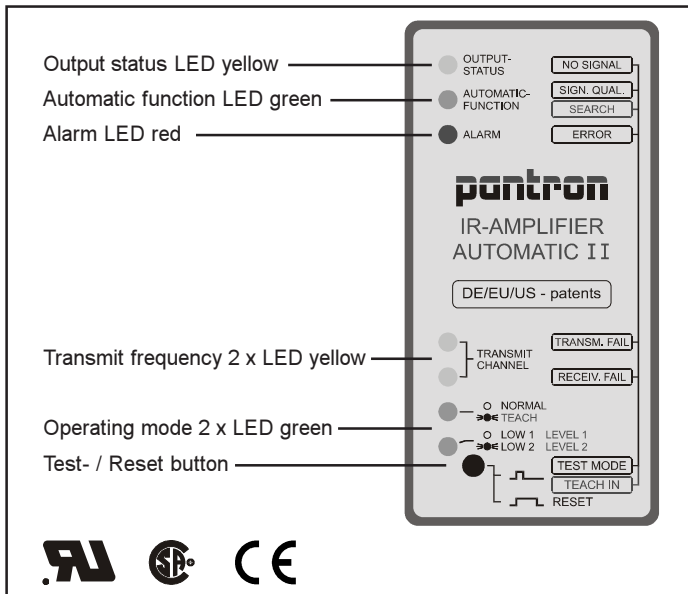
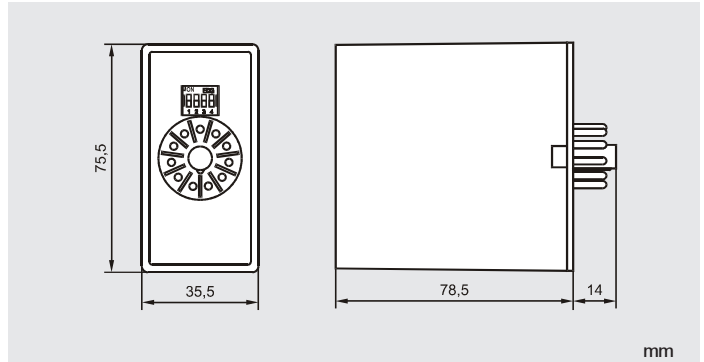


# Amplifier

## 1-channel automatic-amplifier ISG-A144...



- Detection range up to 25 m
- Relay output
- Adjustment aid via test function
- Teach function
- Test input for transmitter switch-off
- Alarm output for indication of functional reserve
- 2 different switchable transmit frequencies
- 2 different selectable basic transmit levels
- Switching mode light / dark selectable



### Technical Data

at +20 °C

Max. range (through beam)	
Sensor heads IT-P10, IR-P10	15 m
Sensor heads IT-P10HP, IR-P10	25 m
Supply voltage	see purchase order table below
Operating basis	modulated IR light
Transmit power	automatic adjustment
Transmit frequency	3,7 kHz / 4,1 KHz, switchable
Switching mode	light / dark, switchable
Basic transmit level	low 1 / low 2, switchable
Teach function	level 1 / level 2, switchable
Switching delay	-
Relay output	1 changeover
Max. load	5 A / 230 V AC (24 V DC)
Switching frequency	20 Hz
Alarm output	pnp, 24 V DC
Max. load	AC: 5 mA, DC: 100 mA
Test input	0 ... 30 V DC
Housing material	plastic
Protection class	IP 40
Operation temperature	-25 °C ... +60 °C

### Purchase order table

Supply voltage	Model
230 V AC / ±10 % / 2,4 VA	ISG-A144/230VAC
115 V AC / ±10 % / 2,4 VA	ISG-A144/115VAC
24 V AC / ±10 % / 2,4 VA	ISG-A144/24VAC
24 V DC / ±20 % / 2,2 W	ISG-A144/24VDC

### Accessories

11-pole DIN socket	ISO 1
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### DIP switch setting

	1	2	3		4	
Operation mode			Switing mode	Transmit freq.		
teach 2	ON	ON	dark	ON	4,1 kHz	ON
teach 1	ON	OFF				
low 2	OFF	ON	light	OFF	3,7 kHz	OFF
low 1	OFF	OFF				

The factory setting is marked in gray

### Connection diagram

