ALFAZETA

Status indicators

General description

Alfa-Zeta Co. Ltd.
ul. Staroruda 6a
93-418 Łódź, POLAND

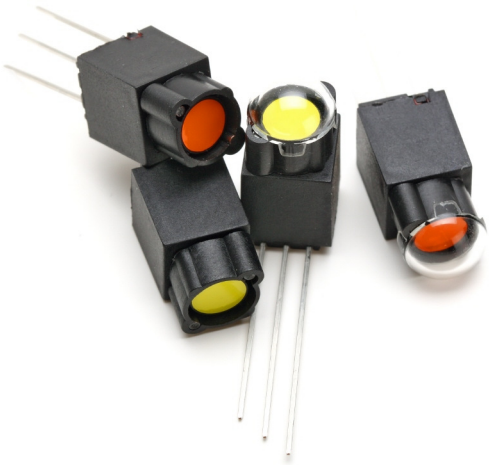
tel. +48 42 689 12 00
tel. +48 42 689 12 01
tel. +48 42 689 12 02
fax: +48 42 689 12 03

info@alfazeta.pl
http://www.alfazeta.pl

Electromagnetic status indicators are ideal for applications which require great visibility In difficult light conditions and built – in memory which allows to display critical information after all power is gone. Typical applications include transient recorders, industrial process displays, portable field measuring equipment displays, contact status indicators and any binary on / off indicators.

OPERATING CHARACTERISTICS

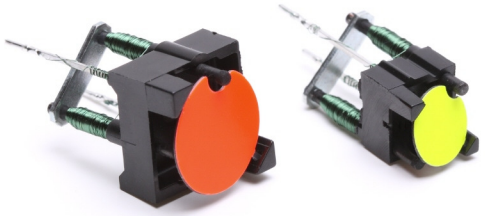
Each disk contains a permanent magnet which interacts with an electromagnet. A current pulse activates a reversal of the magnetic field induced in the electromagnet which
determines whether the segment is exposed (set) or retracted (reset). Indicators are available in many different styles and sizes, in a range of fluorescent colors including green, yellow, red and orange, in addition to white. For a complete listing refer to our color chart, available on request.



Series AZ30 status indicators

BENEFITS and FEATURES

- **VISIBILITY**
  The light reflecting, rotating fluorescent disks in these indicators provide excellent visibility in most ambient light conditions
- **RELIABILITY**
  The disks are the only moving parts and are rated at the minimum of 100 milion operations the indicators are extremely rugged and ideal for use in applications over a
  wide range of environmental conditions. Magnetic memory retains the indicators' status through shock, vibration or power failure making them ideal for mobile applications.
- **ECONOMY**
  Power is only required to change the data displayed. Inherent magnetic memory in each segment retains the display indefinitely without power being applied. Multiple displays can be operated on a few watts of total power.



Series AZ54 and Series AZ36 status indicators

AVAILABLE OPTIONS:

- C/R 30 ND/NR (C—plastic cap, R—right angle pins, ND—three terminals, NR- two terminals)
- 54NR (NR—two terminals)
- 36NR (NR—two terminals)
- 220ND (ND—three terminals)

Series 220ND status indicators

AVAILABLE COLOURS

06—yellow, 01—white, 05—red, 03—green, 02—orange
All other colors upon request

ALFAZETA

	AZ30	AZ36	AZ54	AZ220ND
Overall size	11.5 mm (0.45 in) x 11.5 mm (0.45 in)	10.2 mm (0.40 in) x 10.2 mm (0.40 in)	15.2 mm (0.60 in) x 15.2 mm (0.60 in)	73.66 mm (2.9 in) x 73.66 mm (2.9 in)
Disk size	7.00 mm (0.30 in)	8.9 mm (0.350 in)	13 mm (0.53in)	55.11 mm (2.17 in)
Weight	4.5 g (0.16 oz)	2.0 g (0.07 oz)	3.2 g (0.11 oz)	30 g (1.03 oz)
Driver requirements	Current pulse of 1.5 ms duration 250 mA minimum amplitude, minimum voltage 4.5 V. Max. Voltage 125 V, max. Current 500mA, max. Power 750 MW.	Current pulse of 1.0 ms duration 350 Ma minimum amplitude, minimum voltage 7.5 V.	Current pulse of 1.0 ms duration 350 Ma minimum amplitude, minimum voltage 7.5 V.	Current pulse of min 2.0 ms@12V, 1 ms@18V, 0.5ms@30V. Current 0.29A@12V single coil, 0.58A@12V double coil. Current values at end of pulse.
Coil resistance (At 20ºC ambient)	12 ohms ± 10%	18.2 ohms ± 10%	18.2 ohms ± 10%	41.37 ohms ± 10% double coil, 20.68 ohms ± 10% double coil,
Max. Coil temperature	95ºC	95ºC	95ºC	105ºC
Power to maintain displayed data	ZERO	ZERO	ZERO	ZERO
Temperature range	40ºC to 92ºC (-40 ºF to 196ºF)	-40ºC to 75ºC (-40 ºF to 167ºF)	-40ºC to 75ºC (-40 ºF to 167ºF)	-40ºC to 90ºC (-40 ºF to 167ºF)
Relative humidity	Up to 95% provided no condensation occurs	Up to 95% provided no condensation occurs	Up to 95% provided no condensation occurs	Up to 95% provided no condensation occurs
Outdoor application	Requires a weatherproof enclosure			
Notes:	**Electrical characteristics** All indicators are current operated devices. Applied voltages must be sufficient to develop minimum specified current over full operating temperature range. Drive pulse duration requirements include current rise time. Coil drive requirements are specified at the module input terminals.			