

Type VAM Automatic Semaphore Indicators

Features

- Continuously rated coils (eliminating the risk of burnouts).
- High operating torque and positive action.
- Simple construction, ease of inspection and maintenance.
- ABS plastic casing.

Application

Automatic indication on mimic diagrams of the position (open or closed) of circuit breakers, isolators and other remote switches.

General description

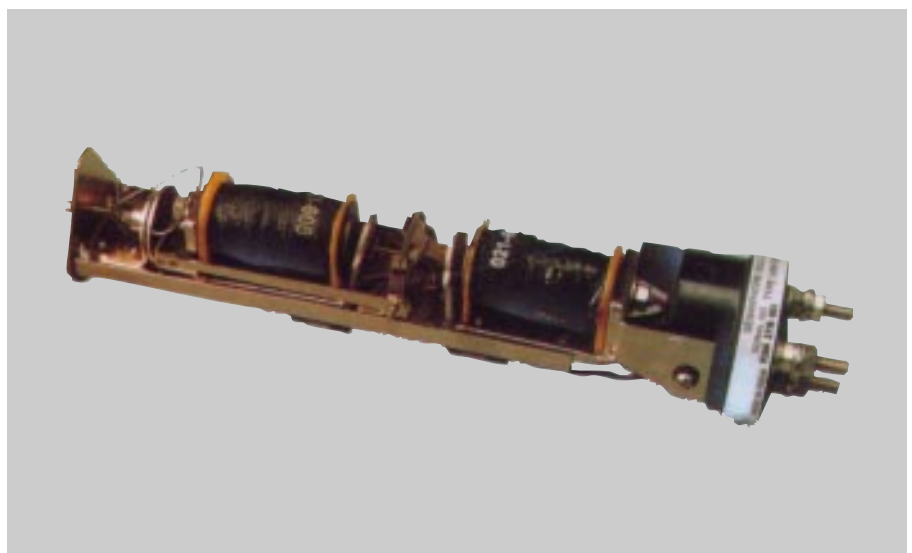
The indicators employ attracted armature units without contacts. The units are arranged to operate a disc by means of a link mechanism.

The indicator fits into a cylindrical shaped case and is designed essentially for flush mounting on control panels with moulded plastic cases. The indicator usually takes the form of a coloured line on any desired background, arranged to bridge the gap between adjacent lines in the mimic diagram when the associated circuit breaker or switch is closed.

A simple clamping device is provided on the case for fixing on to the panel. Types VAM 11 and VAM 21 are Latch-In indicators in which the disc maintains the last indicated position when the supply fails. The indicator has two units fitted with a latch-in mechanism.



VAM indicator
withdrawn from case



Operation of one unit rotates the disc clockwise or counter-clockwise through 90°.

Types VAM 12 and VAM 22 are Supply Failure Indicators in which a spring holds the disc at neutral position when both units of the indicator are de-energised.

Operation of one unit rotates the disc clockwise or counter-clockwise through 45°.

Types VAM 13 and VAM 23 are Single Coil Indicators fitted with single units only. This unit, when energised, rotates the disc through 90°. A spring returns the disc to the original position when the coil is de-energised.

Types VAM 11, 12 and 13 indicator discs are 38 mm diameter and are generally used for isolator position indications.

Types VAM 21, 22 and 23 indicator discs are 63 mm diameter and are generally used for circuit breaker position indications on mimic diagrams.

Technical data

Coil ratings

30, 110 or 220V dc
110 or 240V ac 50 Hz.

Other coil ratings are available on request.

DC indicators operate satisfactorily between 80% – 120% of rated voltage.

AC indicators operate satisfactorily between 90% – 120% of rated voltage.

Dimensions

Relay type	Case	Diameter (mm)		Length* (mm)
		Maximum	Panel cut-out	
VAM 11, 12 or 13	ABS	68	51	192.5
VAM 21, 22 or 23	ABS	90	71	198.5

* Add 19 mm for maximum length of terminal studs.

Certified dimensional drawings of case outlines, panel cut-outs and mounting details are available on request.

The indicators are normally supplied with the discs primed suitable for finish painting of background and mimic line.

Burden

2.5 Watts dc or 3.5VA ac

Thermal rating

120% of rated volts continuously.

Information required with order

1. Type of indicator (VAM 11, 12, 13 or VAM 21, 22, 23)
2. Coil voltage rating



ALSTOM Limited Pallavaram Works: 19/1, GST Road, Pallavaram, Chennai-600 043. India.
Tel: 91-044-2368621 Fax: 91-044-2367276 Email: plw.applications@alstom.sprintrpg.eml.vsnl.net.in.

© 1998 ALSTOM Limited

Our policy is one of continuous development. Accordingly the design of our products may change at any time. Whilst every effort is made to produce up to date literature, this brochure should only be regarded as a guide and is intended for information purposes only. Its contents do not constitute an offer for sale or advice on the application of any product referred to in it. ALSTOM Limited cannot be held responsible for any reliance on any decision taken on its contents without specific advice.