

ARC DETECTOR

LAD_HS_X 20/07/06



Light arc detector, LAD/HS, has up to three independent channels suitable for fault arc detection. Each channel has a changeover contact for remote control. On the front of the device you have green leds for local indication of channel ready to react.

Total response time from arc detection to contact activation is less than 10 msec.

Arc detection is made by optical receiver sensible to visible radiation and the arc light is captured by optical plastic fiber inserted into the tank in order to obtain simple cabling between the part under control and LAD device.

The contacts of relay reacts to an arc fault changing their states and remain in that situation for 200ms to allow the switch-gear opening.

Because of very sensitive optical receiver caution must be taken in installation to avoid false activation and normally it is enabled by an over-current relay.

LAD/HS/XI _ _ _

LAD ARC DETECTOR HIGH SENSITIVITY

Technical features

Rated input voltage :.....24, 48, 110,220 VDC
Input :.....optical flash visible peak
.....visible light
Optical link: FOP (optical plastic fiber):.....1mm core
Max distance link:.....100m
Temperature range :..... -30°C ÷ 70°C

IP degree protection :.....IP64(*)

Relays features

Contact material :.....AgCdO
Rated current /Max peak current:6/15A
Rated voltage/Max switching voltage:.....250/400 VAC
Rated load AC1:.....1500VA
Rated load AC15 (230VAC):.....250VA
Single phase motor rating (230VAC):.....0.185kW
Breaking capacity DC1 30/110/220V:..... 3/0.35/0.2A
Minimum switching load:.....500(10/5) mW(V/mA)
Mechanical life AC/DC:.....-/20*10^6 cycles
Electrical life at rated load AC1: 100*10^3 cycles
Insulation between coil and contacts:.....5kV
Dielectric strength between open contacts:...1000VAC
Vibration resistance(5-55)Hz,max +/-1mm:10g
Shock resistance:.....20g

(*) output connector IP30

Material

External box :..... Insulating Material
Filling Material :.....Polyurethan resin (2-component)

Connection input :.....snap-in optical fiber connector
Output :.....MOLEX MINI FIT 12 poles connector

