Artikel-Nr.: VPA1MPA

Ausgwählte Kriterien System Niveau Gehäuse 3/8"
Rohrgewinde Schaltabstand Kontakt Anschluss Kabel Ausgang
DC PNP Material Metall Sonstiges Schaltabstand
Direkterkennung Gehäuse 3/8" x 81,5 mm Material Edelstahl

Kaufen von Electric Automation Network

Photoelectrics
Level Sensors
Types VP, Modulated, Metal Housing
• Modulated light
• Built-in amplifier
• Output: NPN or PNP, 4-wire (NO & NC)
• Housing: Stainless steel or nickel plated brass
• Tip: Polysulphone or glass
• High chemical resistance to most acids and bases
• Liquid and electrical circuit completely isolated
• Power supply: DC models 10 to 40 VDC
Product Description
Ordering Key VPB1 M NA-1
Optical level probe with modulated infrared light for detection of liquids. Self-contained unit has built-in amplifier. Separate transmit- ting and receiving elements sealed behind the tip. Designed for direct mounting through the wall of a tank. The polysulphone tip is espe- cially resistant to most acids and bases.
Type: Refraction principle
Housing material
Tip material Light source Output type Connection
Type Selection
Housing material Tip material Ordering no. Ordering no. Ordering no. Ordering no.
NPN, Make & NPN, Make & PNP, Make & PNP, Make & Break switching Break switching
Break switching Break switching Cable M12 Plug Cable M12 Plug
Stainless steel Polysulphone VPA1MNA VPA1MNA-1 VPA1MPA VPA1MPA-1
Stainless steel Glass VPA2MNA VPA2MNA-1 VPA2MPA VPA2MPA-1
Nickel plated brass Polysulphone VPB1MNA VPB1MNA-1 VPB1MPA VPB1MPA-1
Nickel plated brass Glass VPB2MNA VPB2MNA-1 VPB2MPA VPB2MPA-1
Specifications
Rated operational voltage 10 - 40 VDC Ripple ≤ 10 V Output current

Continuous ≤ 200 mA
No-load supply current ≤ 7 mA Voltage drop ≤ 2.5 VDC Protection Reverse polarity, short circuit, transients
Ambient light ≤ 50.000 lux
Transient voltage 1 kV Delay after power-on 20 ms Operating frequency ≤ 30 Hz
Indication for
Output ON LED, yellow
No LED indication on plug types
Sensing accuracy
Liquid level difference Horizontal mounting: ± 5 mm
LED indication on plug types Vertical mounting: ± 2.5 mm
Pressure ≤ 10 bar at +60ºC (+ 140ºF)
Environment
Degree of protection IP 67
Operating temperature -20° to +80ºC (-4° to +176ºF) Storage temperature -40° to +100ºC (-40° to +212ºF)
Liquid temperature +100ºC (+212ºF) for ≤ 60 s
Housing material Stainless steel AISI 303 or nickel plated brass
Cable 2 m, 4 x 0.3 mm2, grey, Ø 5.2 oil resistant PVC
Resistance ≤ 100 Ω, extension possible
Weight 90 g
Tightening torque
Stainless steel 30 Nm
Nickel plated brass 30 Nm
External thread 3/8” (ISO 228/1)
CE-marking Yes
Specifications are subject to change without notice (02.03.2006) 1