

Sensing Specifications

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|-------------------------------|-----------------------|
| Flush Mountable | Shielded sensors only |
| Nominal Sensing Distance (Sn) | 2.5mm |
| Repeat Error (% of Sn) | <2% |
| Hysteresis (% of SN) | 2-20% (5% is typical) |



Mechanical Specifications

| | |
|-------------------------------------|--|
| Dimensions | M12x1 (see drawings) |
| DC Cable Versions | 2 meter length, 3 wire, #22 AWG, .19"OD, PVC, UL2464 |
| Enclosure Rating | IP67, NEMA 1,3,4,6,13 |
| Operating Temperature Range | -25° to 70°C (-13 to 158°F) |
| Signal Indicator | Yellow LED |
| Sensor Face Material | Plastic (Valox DR-48) |
| Barrel Material - Shielded Versions | Ni-Plated Brass |
| Shock | 30g, 11ms |

Electrical Specifications

DC Versions

| | |
|------------------------------|----------|
| Supply Voltage Range | 5-48 VDC |
| Continuous Switching Current | 300 mA |
| Voltage Drop | <2V DC |
| Current Consumption | <10 mA |
| Maximum Switching Frequency | 100 Hz |
| Leakage Current | n/a |
| Transient Protection | Yes |
| Short Circuit Protection | Yes |
| Reverse Polarity Protection | Yes |



Part Numbers

| Supply Voltage | Shielded | Sensing Range | PNP (sourcing) | NPN (Sinking) | Normally Open | Normally Closed | Termination | Part Number |
|----------------|----------|---------------|----------------|---------------|---------------|-----------------|-------------|-------------|
| 5-48VDC | Y | 2.5mm | Y | | Y | | Cable | C1A12AP1-M |
| 5-48VDC | Y | 2.5mm | Y | | | Y | Cable | C1A12BP1-M |
| 5-48VDC | Y | 2.5mm | | Y | Y | | Cable | C1A12AN1-M |
| 5-48VDC | Y | 2.5mm | | Y | | Y | Cable | C1A12BN1-M |

