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BEDIA Motorentechnik GmbH & Co.KG,
Altdorf bei Nürnberg

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<p>Technical data</p> <p>Medium oil</p> <p>Function maximum - operating current (oc)</p> <p>Operating voltage 12 / 24 V (-25% / +50%) (9 - 36 VDC)</p> <p>Current consumption < 8 mA</p> <p>Output low side switch ≤ 1 A over the whole temperature range short-circuit and overload protected over the ambient temperature range. At inductive loads freewheeling diode e.g. 1N4007, has to be mounted at the load.</p> <p>Mounting thread M18x1,5</p> <p>Function control 0 seconds ±5%</p> <p>Fault indication delay 7 seconds ±5%</p> <p>Connection connector fine thread 5/8-24 UNEF</p> <p>Housing material X5CrNi18-10 EN 10088-3:1.4301 capacitive connected to ground</p> <p>Probe coating Tefzel® ETFE</p> <p>Probe protection © IP6K7 according to ISO 20653 with mounted mating connector</p> <p>Weight approx. 100 g</p> <p>Marking manufacturer; type; manufacturer-no.; customer-part-no.; SN; year / week; approvals</p> <p>Switch point hysteresis < 3 mm</p> <p>Reference medium paraffin oil, ε_r = 2,0..2,4, for switchpoint adjustment</p> <p>Medium temperature -40°C to +150°C (-40°F to +302°F)</p> <p>Ambient temperature -40°C to +125°C (-40°F to +257°F)</p> <p>Storage temperature -50°C to +125°C (-58°F to +257°F)</p> <p>Mounting position any</p> <p>Reverse polarity protection inbuilt between positive and negative terminal</p> <p>Caution !! Do not connect negative potential to signal terminal of the sensor and positive potential to negative terminal of the sensor.</p> <p>Approvals ABS, BV, CCS, DNV, KR, LR, NKK, RINA, RMRS</p> <p>Customs tariff number 90261029 ©</p> <p>Environmental simulations</p> <p>Vibration ISO 16750-3 10 Hz - 2000 Hz 20 g</p> <p>Free Fall IEC 16750</p> <p>Mechanical Shock DIN EN 60068-2-27; 100 g / 11 ms</p> <p>Dry Cold DIN EN 60068-2-1; -40°C / 24 h (-40°F / 24 h)</p> <p>Dry Heat DIN EN 60068-2-2; +125°C / 96 h (+257°F / 96 h)</p> <p>Temperature cycling DIN EN 60068-2-14</p> <p>Damp Heat DIN EN 60068-2-78</p> <p>Damp Heat, cyclic DIN EN 60068-2-30</p> <p>Salt spray DIN EN 60068-2-52</p> <p>Flame retardant DIN 75 200</p> <p>Pressure resistance 2,5 MPa (25 bar / 362,6 psi) (25°C / 77°F / 1 h)</p> <p>EMC</p> <p>Conducted emission from the power port CISPR 16 10 kHz - 30 MHz</p> <p>Electric field radiated emissions CISPR 16 150 kHz - 6 GHz ©</p> <p>RF electromagnetic fields EN 61000-4-3 1 MHz - 6 GHz; 100 V / m ©</p> <p>Conducted interference EN 61000-4-6 150 kHz - 80 MHz; 10 V</p> <p>Conducted interference IEC 60533 50 Hz - 10 kHz; 3 V / 0,5 V</p> <p>ESD EN 61000-4-2 ±8 kV Contact / Air discharge</p> <p>Burst EN 61000-4-4 ±2 kV DC power port / signal lines</p> <p>Surge EN 61000-4-5 ±1 kV line <-> ground ±0,5 kV line <-> line</p> <p>High voltage IEC 60092-504 550 V</p> <p>Power supply variations and interruptions EN 61000-4-11 Ub +50% / -25%</p>					<p>A = positive (+) B = negative (-) C = signal (S)</p>				<p>Block diagram</p>																																																													
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