# SOLENOID PRODUCT SPECIFICATION

| PART No.     | VOLTAGE | DUTY CYCLE          | POWER (W) | CURRENT (A) | DCR (Ω) *
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>DSMS-0730-24</td>
<td>24 VDC</td>
<td>2%, 45msec On</td>
<td>35</td>
<td>1.5</td>
<td>16</td>
</tr>
<tr>
<td>DSMS-0730-18</td>
<td>18 VDC</td>
<td>2%, 45msec On</td>
<td>34</td>
<td>1.92</td>
<td>9.4</td>
</tr>
<tr>
<td>DSMS-0730-12</td>
<td>12 VDC</td>
<td>2%, 45msec On</td>
<td>32</td>
<td>2.67</td>
<td>4.5</td>
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<tr>
<td>DSMS-0730-09</td>
<td>9 VDC</td>
<td>2%, 45msec On</td>
<td>30</td>
<td>3.35</td>
<td>2.7</td>
</tr>
<tr>
<td>DSMS-0730-05</td>
<td>5 VDC</td>
<td>2%, 45msec On</td>
<td>30</td>
<td>5.9</td>
<td>0.85</td>
</tr>
</tbody>
</table>

* OPERATION: POWER TO PUSH AND RELEASE, BUILT-IN RETURN SPRING.

1. MECHANICAL DIMENSIONS:

- Connector: J.S.T
- HOUSING: ZHR-2
- CONTACT PIN: SZH-002T-P0.5
- CABLE: AWG 28 UL 1007

UNIT: mm.

A = 3.40 ± 0.2
B = 30.00 ± 0.25
C = 2.00 ± 0.1
D = 6.50 ± 0.1
E = 13.20 ± 0.2
F = 12.20 ± 0.2
G = 10.5 ± 0.1
H = Ø6.0 ± 0.1
I = 8.00 ± 0.1
J = Ø2.6 ± 0.1
K = 4~M2.6x0.45
L = 180 MIN.
M = 14.00 ± 0.2
N = 16.00 ± 0.2
O = 3.50 ± 0.1
P = 0.50 ± 0.1

UNLESS TOLERANCES.

X, X = ±0.2
X, XX = ±0.1
ANGLES = ±1°

2. SCHEMATIC AND CONSTRUCTION:

![Schematic Diagram]

**TEST CONDITION**

<table>
<thead>
<tr>
<th>FORCE TEST</th>
<th>NOMINAL VOLTAGE 92.5V, 45±10m Pulse Width</th>
<th>350 Grams Min. (Plunger Pull-In Force)</th>
<th>350 Grams Max. (Plunger Pull-In Force)</th>
</tr>
</thead>
</table>

* NOMINAL OPERATION DUTY CYCLE: POWER ON 40% / OFF 2 SEC

**INSULATION MATERIALS:** UL CONSTRUCTION, CLASS B 130°C

**LIFE EXPECTANCY:** 100K CYCLES OPERATIONS

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**LAYER TEST**

<table>
<thead>
<tr>
<th>IR. Ø500 Vdc</th>
<th>HI-POT 500V</th>
<th>HI-POT 500V</th>
</tr>
</thead>
<tbody>
<tr>
<td>(S-F) 500Vp. Min.</td>
<td>COIL TO FRAME</td>
<td>Ø50/60Hz 2mA</td>
</tr>
<tr>
<td>TEST ONLY COIL</td>
<td>50 KOhm Min.</td>
<td>COIL TO FRAME</td>
</tr>
<tr>
<td>1200Vac 1s</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>