Masterflex® L/S®
MasterSense™ Drives

Reimagine fluid handling—operate, collaborate and connect with ease

- Intuitive touch-screen interface—quick and easy to program, even with gloves on
- Operational modes include continuous run, volume dispense, and time dispense
- Save and recall up to 50 commonly used protocols, each with a unique name
- Batch control and interval/off time in volume and time modes
- Antidrip and speed ramping available in volume mode—ensure accuracy and minimize sample loss
- Over-the-air firmware updates—allows you to take full advantage of future enhancements
- Secure three-tier access to pump functionality
- Graphical indicator lets you know when loaded tubing is optimally calibrated
- Get your preferred way to work with multiple ways to operate the drive—via touch screen, analog remote, or choose a connectivity option
- Choice of connectivity options—MasterflexLive®, EtherNet/IP™, or Profibus
- Broad flow range, from 0.001 to 3400 mL/min, for use on the process floor and in the lab
- Versatile—compatible with all L/S pump head styles and pump tubing

Masterflex.com
Flow rates in mL/min (flow rates in parentheses can be obtained only with the L/S High-Performance pump head)

<table>
<thead>
<tr>
<th>rpm</th>
<th>L/S 13</th>
<th>L/S 14</th>
<th>L/S 16</th>
<th>L/S 25</th>
<th>L/S 17</th>
<th>L/S 18</th>
<th>L/S 15</th>
<th>L/S 24</th>
<th>L/S 35</th>
<th>L/S 36</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 to 600</td>
<td>0.006 to 36</td>
<td>0.021 to 130</td>
<td>0.08 to 480</td>
<td>0.17 to 1000</td>
<td>0.28 to 1700</td>
<td>0.38 to 2300</td>
<td>0.17 to 1000 (0.18 to 1100)</td>
<td>0.28 to 1700 (0.33 to 1800)</td>
<td>0.38 to 2300 (0.43 to 2600)</td>
<td>0.48 to 2900 (0.58 to 3400)</td>
</tr>
<tr>
<td>0.02 to 100</td>
<td>0.001 to 6</td>
<td>0.004 to 21</td>
<td>0.016 to 80</td>
<td>0.033 to 170</td>
<td>0.057 to 280</td>
<td>0.077 to 380</td>
<td>0.033 to 170 (0.036 to 180)</td>
<td>0.057 to 280 (0.060 to 300)</td>
<td>0.077 to 380 (0.086 to 430)</td>
<td>0.096 to 480 (0.113 to 580)</td>
</tr>
</tbody>
</table>

Specifications

- Speed control accuracy (resolution): ±0.1% (0.1 rpm at 600 rpm; 0.01 rpm at 100 rpm)
- Display: 5” capacitive TFT/RGB touch screen with in-plane switching (wide viewing angle); 800 x 480 pixels
- External control - input: 0 to 20 mA, 20 to 0 mA, 4 to 20 mA, 20 to 4 mA, 0 to 10 V, 10 to 0 V, 0 to 5 V, 5 to 0 V; Start/stop, Direction (CW/CCW), Prime via contact closure
- External control - output: 0 to 20 mA, 20 to 0 mA, 4 to 20 mA, 20 to 4 mA, 0 to 10 V, 10 to 0 V, 0 to 5 V, 5 to 0 V; Tach output (open collector), Motor running, Open head, Local/Remote, General alarm
- Motor: BLDC with encoder; continuous duty; reversible; 1/10 hp (75 W)
- Open-head sensor: Yes, extension cable included
- Housing materials: ABS plastic housing, painted aluminum chassis, painted aluminum bezel
- Enclosure rating: IP33
- Agency approvals: UL, cUL, CE
- Warranty: 2 years
- Dimensions (L x W x H): 10 1/4” x 7 5/8” x 8 1/2” (26 x 19.4 x 21.6 cm)
- Shipping weight: 11 lb (5 kg)
- Power: 90 to 260 VAC, 50/60 Hz

MasterSense Drive Ordering Information

<table>
<thead>
<tr>
<th>rpm</th>
<th>Flow range</th>
<th>Pumps heads accepted</th>
<th>With EtherNet/IP and MasterflexLive</th>
<th>With Profibus and MasterflexLive</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 to 600</td>
<td>0.006 to 3400 mL/min</td>
<td>2</td>
<td>MK-07526-10</td>
<td>MK-07526-12</td>
</tr>
<tr>
<td>0.02 to 100</td>
<td>0.001 to 580 mL/min</td>
<td>4</td>
<td>MK-07526-20</td>
<td>MK-07526-22</td>
</tr>
</tbody>
</table>

MK-07523-92 Foot switch, momentary start/stop; 6-ft (1.8-m) cable
MK-07523-94 DB25 male connector. Use to create your own cable
MK-07523-95 Cable assembly for remote control; DB25 male connector and 25-ft (7.9-m) cable with stripped wire ends
MK-07523-97 Handheld remote controller; route tubing through handle for dispensing into containers
MK-17050-01 NIST-traceable calibration with data for peristaltic pump drive

Complete Systems

<table>
<thead>
<tr>
<th>Flow range</th>
<th>Pump head</th>
<th>Tubing</th>
<th>What’s included</th>
<th>Drive</th>
<th>Item number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.08 to 480 mL/min</td>
<td>L/S Easy-Load pump head 07514-30 with open-head sensor</td>
<td>Puri-Flex™ pump tubing 96419-16, L/S 16, 10 ft (3 m)</td>
<td>L/S MasterSense drive 07526-10, 0.1 to 600 rpm, with EtherNet/IP and MasterflexLive</td>
<td>MK-77920-40</td>
<td></td>
</tr>
<tr>
<td>0.28 to 1700 mL/min</td>
<td>L/S Easy-Load II pump head 77200-32 with open-head sensor</td>
<td>Puri-Flex pump tubing 96419-24, L/S 24, 10 ft (3 m)</td>
<td>L/S MasterSense drive 07526-12, 0.1 to 600 rpm, with Profibus and MasterflexLive</td>
<td>MK-77920-52</td>
<td></td>
</tr>
</tbody>
</table>

1-800-637-3739 | 1-847-381-7050
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