BP4 SERIES LOCKOUT PIN
5000 lbf LOCKOUT LOAD CAPACITY

PNEUMATIC, DOUBLE ACTING RETRACTABLE PIN
SPRING EXTEND OPTION AVAILABLE:
AIR LOSS TRIGGERS MECHANICAL SPRING EXTENSION

70mm BORE INTEGRATED —
PNEUMATIC CYLINDER

SOLID STATE CYLINDER SWITCH

ALL RAMS ARE HARDENED 4140 Rc 45 MIN.

CONICAL NOSE OPTION
FOR LOCKOUT AND LOCATIONAL APPLICATIONS

FLAT NOSE OPTION
FOR LOCKOUT APPLICATIONS

OPTIONAL BARREL PROX SWITCH BRACKET
WITH SWITCH DOG

LOCKOUT PIN APPLICATIONS
TURNTABLES
TRUNNION FIXTURES
TURN-OVER UNITS
LIFTERS & SLIDES
SAFETY COMPLIANCE

LOCKOUT PIN RECEIVERS
SEE SHEET 4

REVISED 1/15/21

Welker Engineered Products 1401 Piedmont, Troy MI 48083 (800) 229-0890 www.welkerproducts.com
**ORDERING INFORMATION**

**Note:** All boxes must be filled in for a complete part number.

**Pin Dia**

- 4mm nominal pin dia

**Stroke**

- 025 25mm stroke
- 050 50mm stroke

**Actuator**

- 01 Pneumatic 70mm bore - single rod - NPT
- 02 Pneumatic 70mm bore - single rod - G port
- 03 Pneumatic 70mm bore - double rod - NPT port
- 04 Pneumatic 70mm bore - double rod - G port

**Pin Nose**

- 1 Conical
- 2 Flat

**Spring Extend**

- 0 No spring
- E Spring extend

**Switch**

- 00 No switch
- LX See Welker cylinder switch chart (below)
- B1 Barrel Prox switch bracket (requires double rod cylinder)
  See sheet 3 for bracket positions: B1, B2, B3, B4

**Bearing**

- S Standard
- H Maintenance free, PTFE composite lined

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**SPRING EXTEND OPTION "E": SPRING FORCE**

<table>
<thead>
<tr>
<th>STROKE</th>
<th>ACTUATOR 01/02</th>
<th>ACTUATOR 03/04</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm STROKE EXTENDED</td>
<td>100 LBF</td>
<td>60 LBF</td>
</tr>
<tr>
<td>50mm STROKE EXTENDED</td>
<td>80 LBF</td>
<td>40 LBF</td>
</tr>
<tr>
<td>FULLY RETRACTED</td>
<td>115 LBF</td>
<td>80 LBF</td>
</tr>
</tbody>
</table>

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**Cylinder Switches**

<table>
<thead>
<tr>
<th>Switch Option</th>
<th>Part Number</th>
<th>Manufacturer</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L3</td>
<td>SWITCH L3*</td>
<td>Welker</td>
<td>4-Wire, 4-Pin, DC (PNP) M12 X 1 Quick Disconnect</td>
</tr>
<tr>
<td></td>
<td>L3 switch is weld field immune, comparable to World Switches. Dual sensor, single connector switch: 1 switch per cylinder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L5</td>
<td>MK5113</td>
<td>ifm Eleta</td>
<td>3-Wire, 4-Pin, DC (NPN) M12 X 1 Quick Disconnect</td>
</tr>
<tr>
<td></td>
<td>Single sensor, single connector switch: 2 switches installed per cylinder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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*Note that some mid and low frequency DC resistance applications (i.e. aluminum resistance welding applications) may cause a fault. In these applications, it is recommended that the sensor be ignored/bypassed during the welding cycle.*

SEE SHEET 4 FOR LOCKOUT PIN RECEIVERS - ORDER SEPARATELY BY PART NUMBER

(800) 229-0890 www.welkerproducts.com
FLAT PIN ~ RETRACTED POSITION
SHOWN WITH CYLINDER SWITCH OPTION "L3"

CONICAL PIN ~ RETRACTED POSITION
SHOWN WITH CYLINDER SWITCH OPTION "B1" & DOUBLE ROD OPTION

NOTES:
- ALL RAMS ARE HARDENED 4140 Rc 45 MIN.
- CYLINDERS INCLUDE MAGNETIC PISTON
- OPTIONAL SPRING EXTEND
  (AIR LOSS TRIGGERS MECHANICAL SPRING EXTENSION)
- MAX WEIGHT WITH 50mm STROKE: 21.5 lbf

(DO NOT SCALE DRAWING)
ENGINEERED PRODUCTS
(800) 229-0890 www.welkerproducts.com

SHEET 3
BRP01E90 LOCKOUT PIN RECEIVER (2-WAY)
2-WAY RECEIVER - FOR USE WITH CONICAL NOSE OPTION "1" AS LOCATOR
CARB & HARDENED Rc 45-50

BRP01E91 LOCKOUT PIN RECEIVER (4-WAY)
4-WAY RECEIVER - FOR MORE ACCURATE LOCATING, USE WITH CONICAL NOSE OPTION "1" AS A FINAL POSITIONER OR SAFETY LOCKOUT
CARB & HARDENED Rc 45-50

BRP01E92 LOCKOUT PIN RECEIVER (CLEARANCE)
CLEARANCE HOLE - FOR USE WITH FLAT/CONICAL NOSE PIN AS SAFETY LOCK-OUT

WELKER ENGINEERED PRODUCTS
(800) 229-0890 www.welkerproducts.com