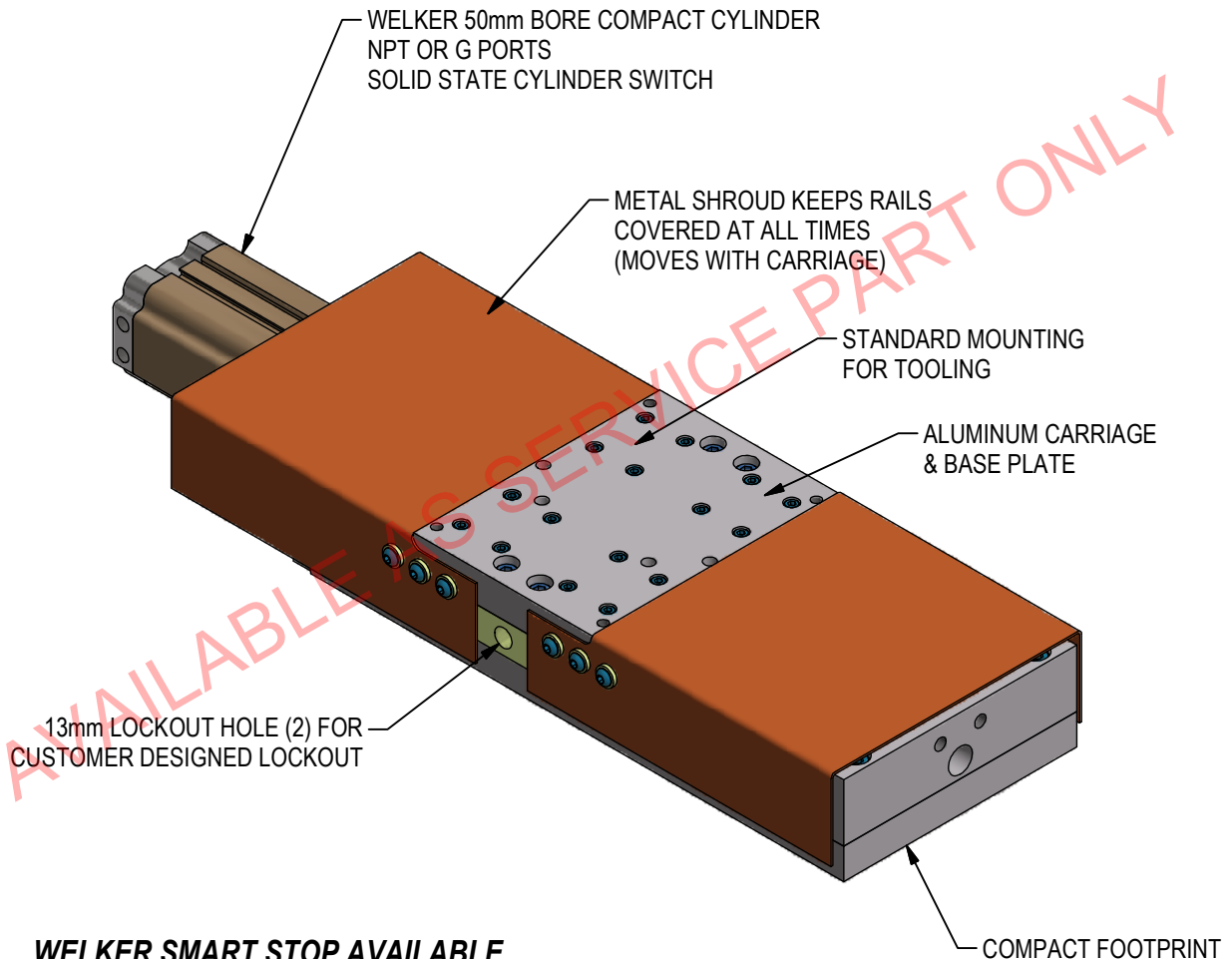


CS1 COMPACT POWERED SLIDE



WELKER SMART STOP AVAILABLE
SHIM OPTIONS FOR STROKES UP TO 100mm
HORIZONTAL APPLICATIONS ONLY
WEIGHS ONLY 35 LBS.
250 LBS LOAD CAPACITY

RELEASED: 5/2/16

ORDERING INFORMATION

NOTE: ALL BOXES MUST BE FILLED IN FOR A COMPLETE PART NUMBER

CS	1	0	0	0	1	0	0									1	W
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Actuator

- 30** Welker Compact Cylinder w/ NPT Ports
- 31** Welker Compact Cylinder w/ G Ports

Port Position

- 2** Port Position P2
- 4** Port Position P4

Cylinder Switch

- 00** No Switch
- LX** See Welker Cylinder Switch Chart

****Additional Retract Shim**

Whole (mm)

- 0 0 G** 16
- 1 1 H** 17
- 2 2 J** 18
- 3 3 K** 19
- 4 4 L** 20
- 5 5 M** 21
- 6 6 N** 22
- 7 7 P** 23
- 8 8 R** 24
- 9 9 S** 25
- A 10 T** 26
- B 11 U** 27
- C 12 V** 28
- D 13 W** 29
- E 14 X** 30
- F 15**

****Additional Retract Shim**

Quarter (mm)

- 0** 0.00
- A** 0.25
- B** 0.50
- C** 0.75

****Additional Extend Shim**

Whole (mm)

- 0 0 G** 16
- 1 1 H** 17
- 2 2 J** 18
- 3 3 K** 19
- 4 4 L** 20
- 5 5 M** 21
- 6 6 N** 22
- 7 7 P** 23
- 8 8 R** 24
- 9 9 S** 25
- A 10 T** 26
- B 11 U** 27
- C 12 V** 28
- D 13 W** 29
- E 14 X** 30
- F 15**

****Additional Extend Shim**

Quarter (mm)

- 0** 0.00
- A** 0.25
- B** 0.50
- C** 0.75

Stop Options

- X** NAAMS Stops
- P** Welker Smart Stops

***Stroke Note:** Standard unit stroke is 100mm. If necessary, stops can be shimmed back to achieve the required travel.

****Shim Note:** When ordering the shim option, units will have shim packs/grind spacers added to the NAAMS stops on both ends and it will shorten the total working stroke.

Welker CS1 slides utilize 15-series rail bearings, lockout holes on both sides, hard shroud and a 50mm bore cylinder.

Ordering examples:

For a CS1 slide with NPT ports at position 2, no additional shims, Welker Smart Stops, order as: CS1000100302000000P1W

For a CS1 slide with G ports at position 4, cylinder switch, 20.50 shims at in the retract and 25.25 shims in the extend, and NAAMS stops, order as: CS1000100314L2LBSAX1W

	Switch	Part Number	Manufacturer	Description
Cylinder Switches	L3	SWITCH L3* L3 sw itch is w eld field immune, comparable to World Sw itches. Dual sensor sw itch, 1 per cylinder	Welker	4-Wire, 4-Pin, DC (PNP) M12 X 1 Quick Disconnect
	L5	MK5113 Single sensor sw itch, 2 sw itches per cylinder	ifm Efeotor	3-Wire, 4-Pin, DC (NPN) M12 X 1 Quick Disconnect

Standard Switch Option - All other options may affect price and delivery

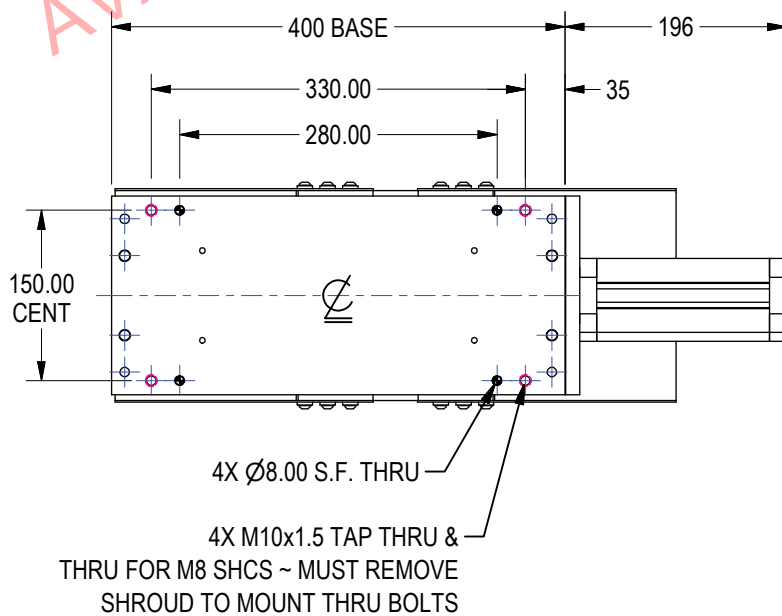
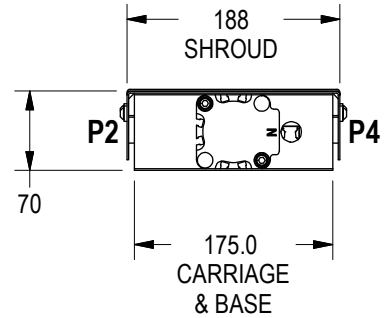
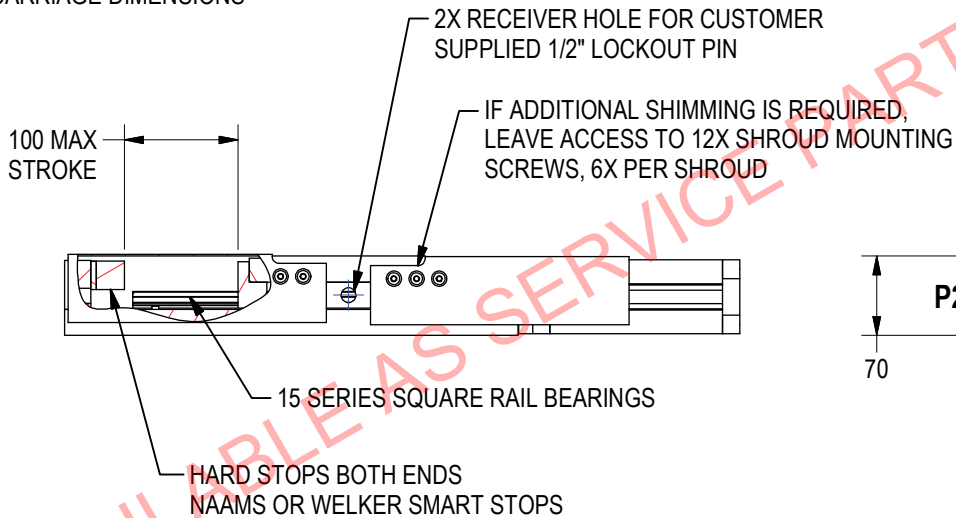
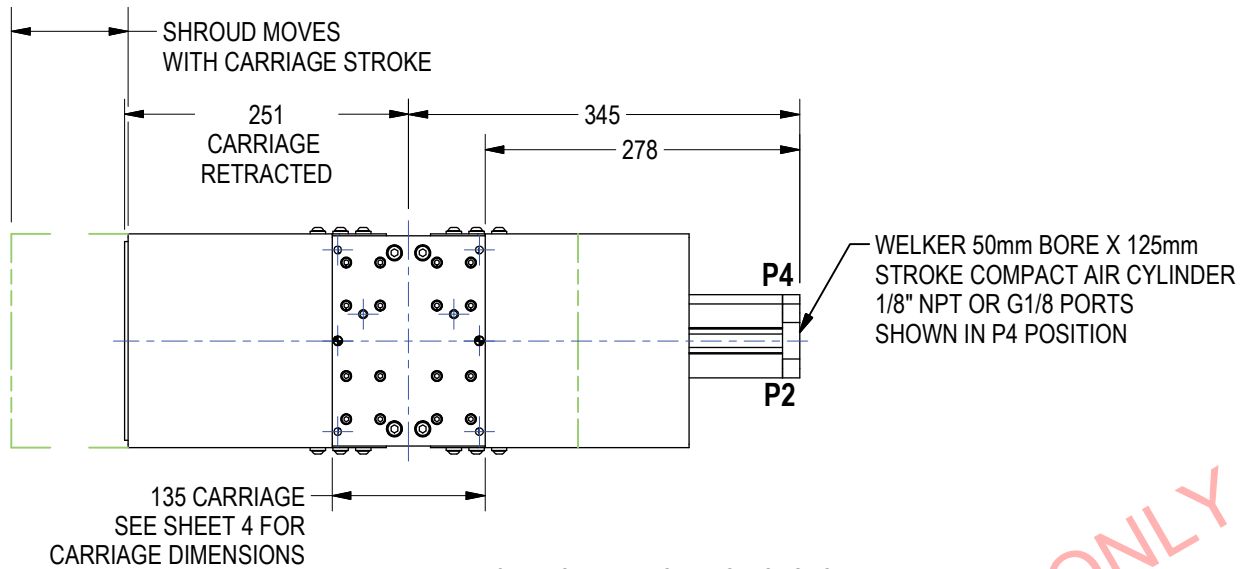
*Note that some mid and low frequency DC resistance applications (i.e. aluminum resistance w elding applications) may cause a fault. In these applications, it is recommended that the sensor be ignored/bypassed during the w elding cycle.

LOAD CAPACITY: 250 LBS

(DO NOT SCALE DRAWING)



GENERAL DIMENSIONS

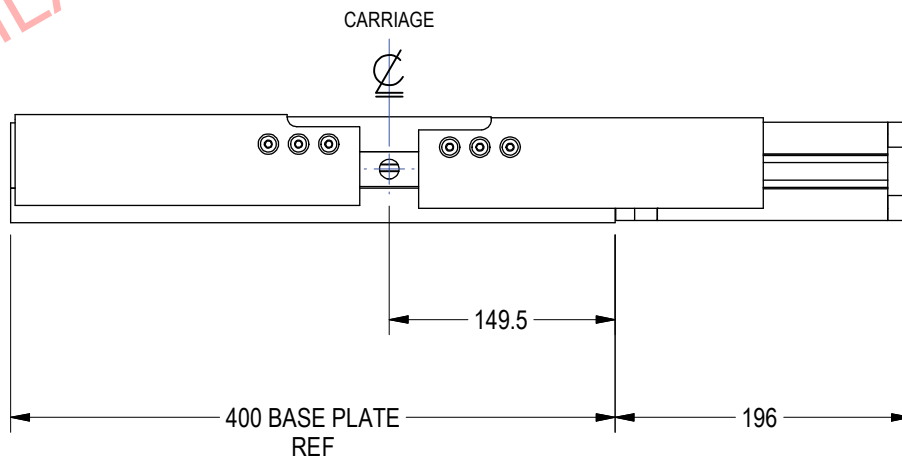
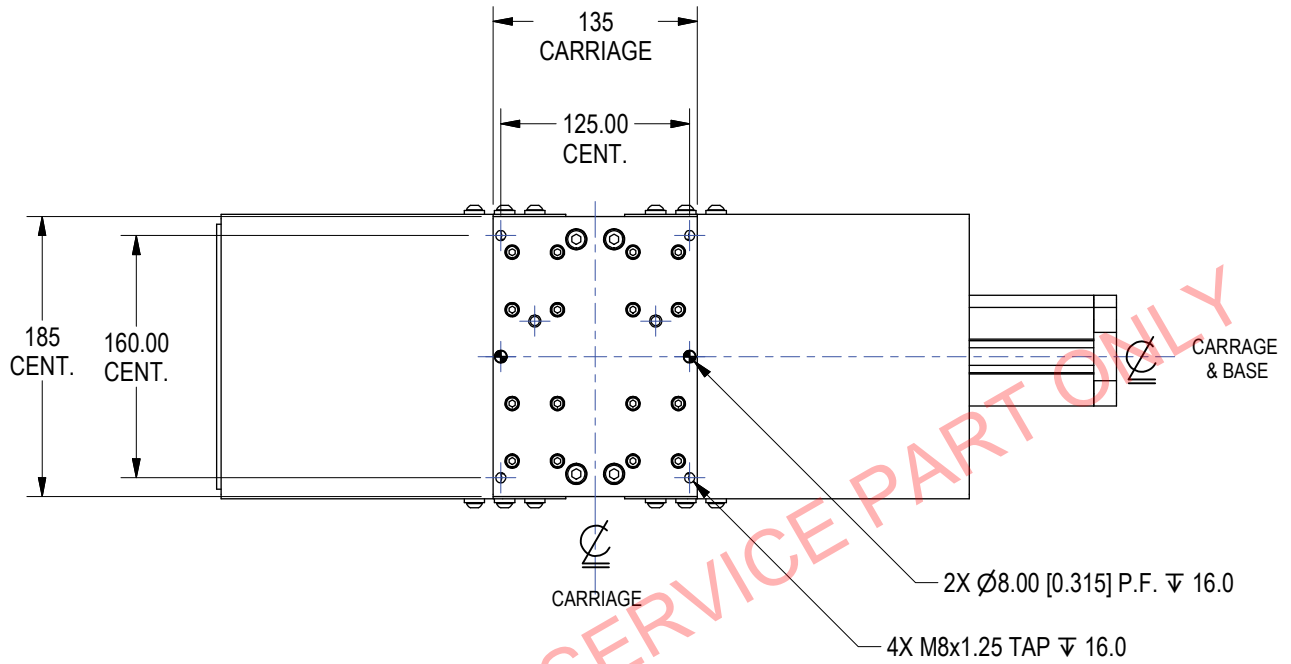


UNIT WEIGHT: 35lbs

(DO NOT SCALE DRAWING)

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

CARRIAGE DIMENSIONS



(DO NOT SCALE DRAWING)

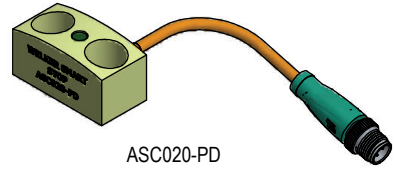
WELKER
ENGINEERED PRODUCTS
(800) 229-0890 www.welkerproducts.com

WELKER SMART STOP

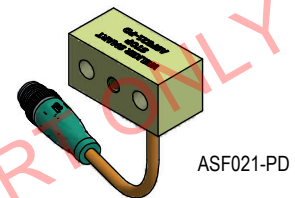
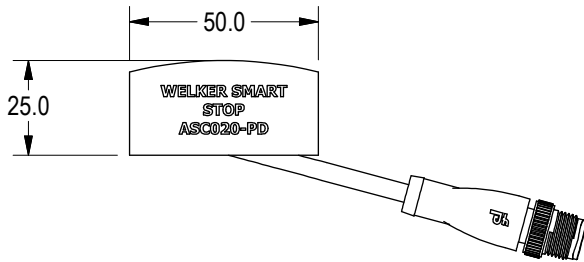
WELKER SMART STOP does all stopping & sensing functions in one part.
SMART STOP minimizes engineering, field set up and operator adjustment time.

WELKER SMART STOP eliminates:

- Need for separate mounts, brackets & flags.
- Need for switch adjustments when shimming.
- Improper adjustment of outboard switches.
- Outboard switch vibrating loose in bracket.
- Protecting outboard proxies from being stepped on or bent in tools.



MODEL NO:
 ASC020-PD FOR CROWNED, DRILL & C'BORE FOR M10 SHCS + DC SWITCH
 ASC021-PD FOR CROWNED, M10X1.5 TAP + DC SWITCH
 ASF020-PD FOR FLAT, DRILL & C'BORE FOR M10 SHCS + DC SWITCH
 ASF021-PD FOR FLAT, M10X1.5 TAP + DC SWITCH



General Specifications

Switching function	Normally Open (NO)
Output type	PNP
Rated operating distance, s_n	1.75mm
Output polarity	DC
Assured operating distance s_a	0 - 1.42 mm
Output type	3-wire

Nominal Ratings

Operating voltage, U_b	5 - 30 V DC
Switching frequency, f	0 - 6000 Hz
Reverse polarity protection	Reverse polarity protected
Short-circuit protection	Pulsing
Voltage drop, U_d	≤ 1.5 V
Operating current, I_L	0 - 100 mA
Off-state current, I_r	0 - 0.2 mA
No-load supply current, I_0	≤ 15 mA

Indicators/Operating Means

Operating voltage indicator	LED green
Switching state indicator	LED yellow

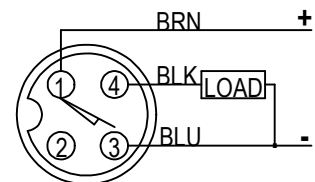
Ambient Conditions

Ambient temperature	-40 - 85 °C (-40 - 185 °F)
Storage temperature	-40 - 85 °C (-40 - 185 °F)

Mechanical Specifications

Connection type Connector plug	M12 x 1, 4-pin
Cable length	255mm
Degree of protection	IP67
Cable material	Weld spatter resistant, robotic quality POC
Cable color	Orange

WIRING DIAGRAM (PNP)



SHORT-CIRCUIT PROTECTED

(DO NOT SCALE DRAWING)

