

PRODUCT CHANGE NOTICE

PCN Number:	2023-INT-01	Issue Date:	January 9, 2023
PCN Type:	<input type="checkbox"/> Product/Process Change		
	<input checked="" type="checkbox"/> Discontinued Product		

Part Number(s) Affected:

Smiths P/N's

851-0018300-000 (SNC Tool Changer Probe)

Customer Specific P/N's

Same as above

Reason for the Change:

Smiths Interconnect will discontinue the product above with an opportunity for a last time buy before March 31st 2023.

Description of the Change:

Smiths cannot honor the requirements listed in Note 8 of the drawing below on any future orders. Also, the minimum order quantity from our supplier has changed to 1,000 pieces which will be the minimal quantity that is available to order. If 1st Article inspection of the mechanical dimensions or a C of C are needed, they can be provided at an addition cost.

Thank You,

**Kevin DeFord
Product Line Manager**

PRODUCT CHANGE NOTICE

REVISIONS Prototype Released (Alpha Revision)				
REV	DESCRIPTION	DATE	EC#	PROJECT NO
R.2	PRELIMINARY	10/10/18	37136	
B	UPDATED NOTES & DIMS	6/11/2020	057535	

NOTES:

1. SPRING PROBE CONTACT MATERIAL:

PLUNGER:
MATERIAL: BERYLLIUM COPPER ALLOY UNS-C17300, PER ASTM B196/196M OR B197/197M.
FINISH: ELECTROLESS NICKEL PLATE PER ASTM B-733, TYPE IV OR V, 100 MICRONS MINIMUM. GOLD PLATE PER ASTM B488, TYPE II, CODE C, CLASS 1.25 (50 MICRONS MINIMUM).

BALL:
MATERIAL: 440C STAINLESS STEEL, PER ASTM A580 OR AMS5630.
FINISH: PASSIVATE PER ASTM-A957 / AMS 2700, TYPE 2.

BARREL:
MATERIAL: BRASS, UNS-C36000, PER ASTM B16/B16M, MINIMUM 1/2 HARD TEMPER.
FINISH: ELECTROLESS NICKEL PLATE PER ASTM B-733, TYPE IV OR V, 100 MICRONS MINIMUM. GOLD PLATE PER ASTM B488, TYPE II, CODE C, CLASS 0.25 (10 MICRONS MINIMUM).

SPRING:
MATERIAL: 304V HYTEN STAINLESS STEEL ASTM A313/A313M.
FINISH: PASSIVATED PER ASTM A967/AMS 2700, TYPE 2.

2. SPRING FORCE:

- AT PRELOAD - 1.0 OZ
- AT 0.030 MINIMUM TRAVEL - 3.5 OZ
- AT 0.050 RATED TRAVEL - 5.0 OZ
- AT 0.080 FULL TRAVEL - 6.8 OZ

3. WIRE CRIMP CAPACITY: 20 TO 26 AWG, USING DMC CRIMP TOOL M22520/2-01 WITH DMC POSITIONER K2052.

4. ALL BARREL DIAMETERS TO BE ± 0.001 A.

5. CURRENT RATING: 5 AMPS CONTINUOUS FOR INDIVIDUAL PROBE IN FREE AIR AT 25 °C.

6. CONTACT RESISTANCE: TYPICAL = 12 MILLIOHMS, AVERAGE < 20 MILLIOHMS AT RATED TRAVEL WITH NO SINGLE PROBE ABOVE 30 MILLIOHMS.

7. TEMPERATURE RANGE: OPERATIONAL -55 C TO +165 C
NON-OPERATIONAL +180 C

8. QUALITY AND LOT TESTING REQUIREMENTS:

1. CRITICAL DIMENSION INSPECTION - 5 UNITS PER LOT AT 100%.
2. FDR TESTING - 3 UNITS PER LOT.
3. CRES LOT TESTING - 10% OF LOT.
4. VISUAL INSPECTION - AQL LEVEL.

Technical drawing showing a side view and a cross-sectional view of a spring probe contact. Dimensions include diameters of 0.0665±0.0015, 0.0445±0.0015, 0.0445, 0.021, 0.0445, 0.2745, 0.3095±0.0010, 0.3315, 0.412±0.004, 0.080, 0.040±0.001, 0.0695±0.0015, 2X 0.0995±0.0005, 0.0700±0.0005, 0.080, 45.0°, 0.572, and 0.168.

SCALE 4 : 1

NOTES:	DWG #	REV
	851-0018300-000C	B
www.smithsinterconnect.com		
DESIGNER: sikcbrown	DATE: 09/28/2018	SURF. FINISH: PROBE
DRAWN BY: sikcbrown	DATE: 6/12/20	MASS: -
CHECKED BY: sikcdpost	DATE: 6/12/20	SHEET SIZE: A
PART MUST CONFORM TO SCSD-SIXC SPECIFICATIONS		UNITS: IN
SCALE: R1 UNLESS OTHERWISE SPECIFIED	TOLERANCES UNLESS OTHERWISE SPECIFIED	CRDG CODE: FINISH: PLATE
DWG SINGLE PROJECTION	3RD ANGLE PROJECTION	ADVISE: SEE NOTES
SCN (ENHANCE GENERAL)	RDHS COMPLIANCE COMMERCIAL	REMARK: 1 OF 1
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Effective Date: January 9th, 2023

Change History

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Revision	Initiated by	Date	Description of Change / Reason
A	Dave Raymond	18-May-2018	Initial Release