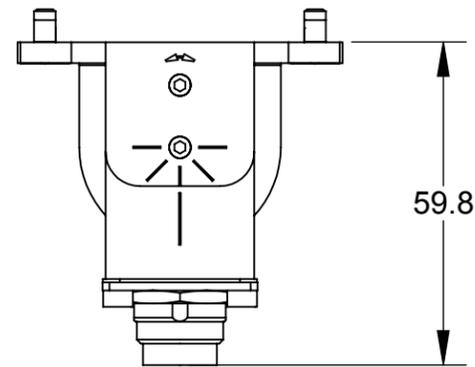


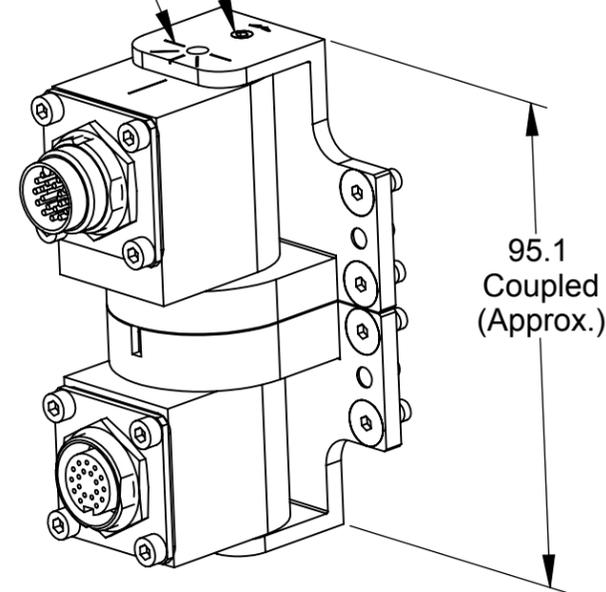
Rev.	Description	Initiator	Date
02	Release No Changes	JEW	12/6/07

GF19 Master Module
(9120-GF19-M)

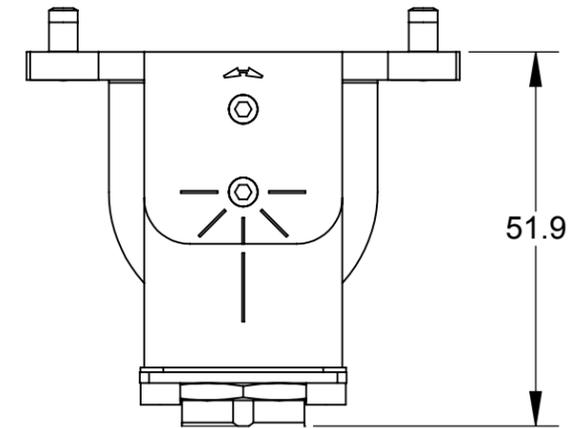


Position Locking Setscrews

5 Position Marks

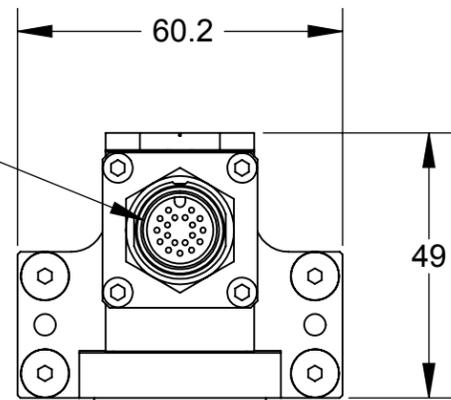


GF19 Tool Module
(9120-GF19-T)



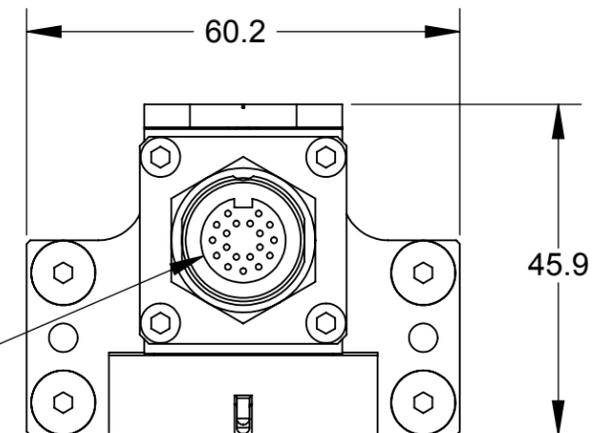
Connectors shown in
Center Position

Turck BSFD 19
Male Receptacle



Serviceable Part:
(V-Ring)
4010-0000030-1

Turck BKFD 19
Female Receptacle



Notes:

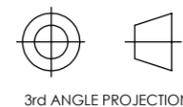
1. See sheet 2 for wiring and pin out.
2. The master and tool modules have (5) position options which can be adjusted as required.
3. **WARNING:** The modules must be secured/locked in a position prior to operation, otherwise internal damage to conductors will occur.
4. **DANGER!** -For electrical modules using >60VDC or 42 VAC, NO contact should be attempted before removing power. This especially includes separation or insertion of the mating connectors or any contact with the tool changer or its' components.

NOTES: UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING. DRAWN IN SOLIDWORKS.
 ALL DIMENSIONS ARE IN MILLIMETERS.



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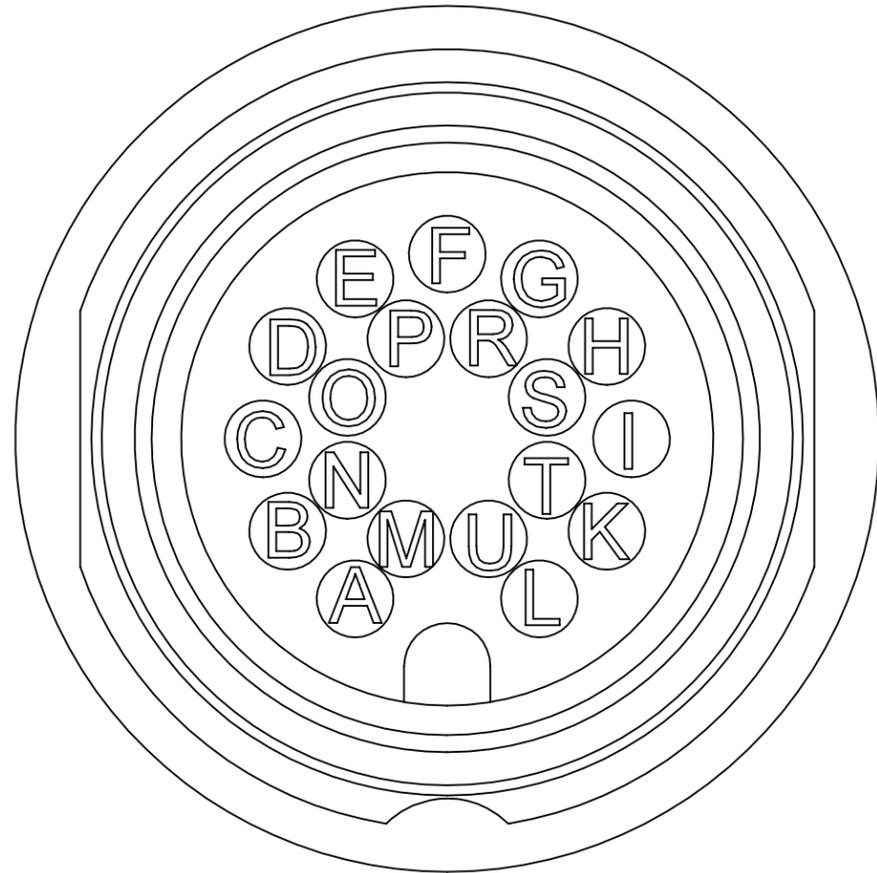


3rd ANGLE PROJECTION

DRAWN BY: J. Williams 11/9/07		TITLE GF19 Module Drawing	
CHECKED BY: D. Lawson 11/12/07		SCALE 3:4	DRAWING NUMBER 9630-20-GF19-02
WEIGHT LBS: 0.48		SIZE B	DATE
ASSEMBLY REF:		PRODUCT RELEASE # 071101-1	SHEET 1 OF 2

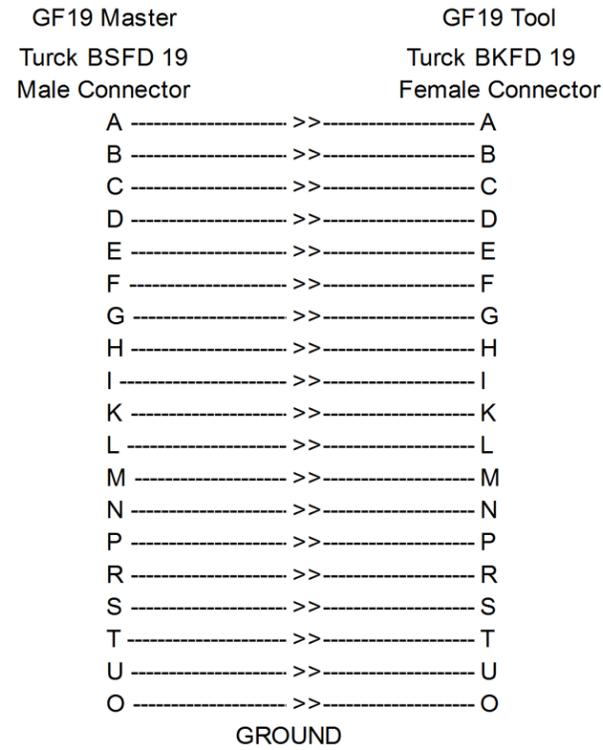
Rev.	Description	Initiator	Date
-	See Sheet1	-	-

Master Connector

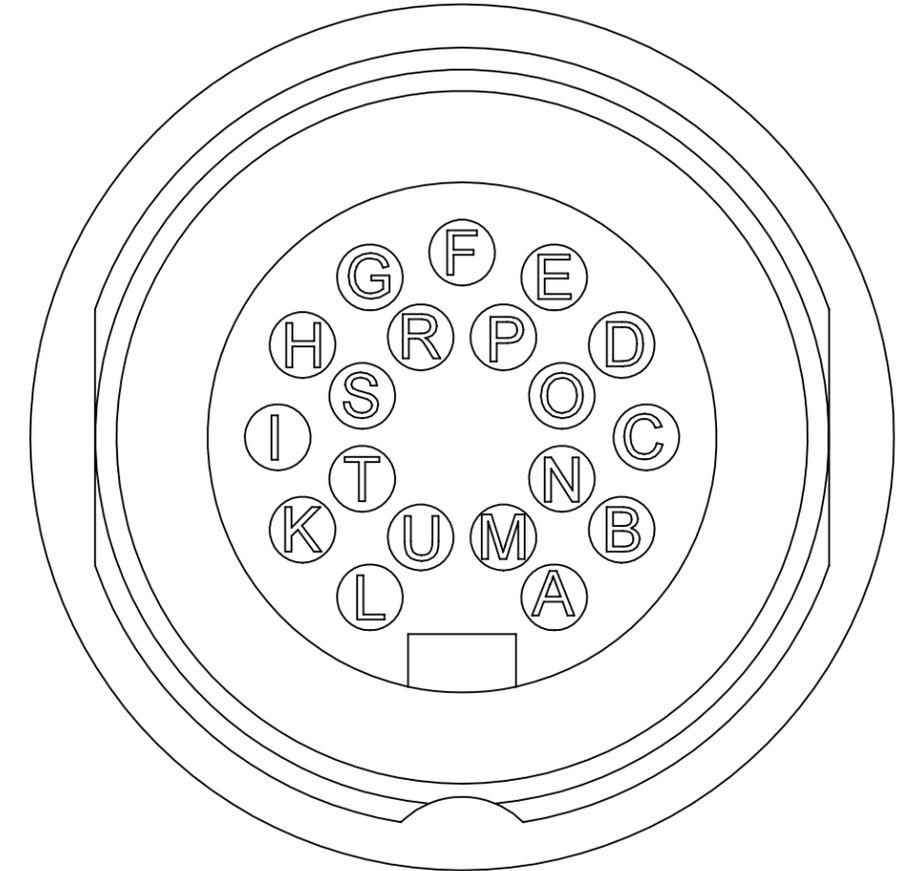


Turck BSFD 19

GF19 Pin Out



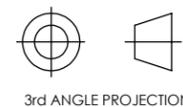
Tool Connector



Turck BKFD 19

Notes:
 1. Pin "O" on the Turck receptacle is first to mate, last to break at the tool changer interface. This pin is recommended for use as 0 VDC and/or ground service.

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DRAWN BY: J. Williams 11/9/07		TITLE GF19 Module Drawing	
CHECKED BY: D. Lawson 11/12/07		SCALE 3:4	DRAWING NUMBER 9630-20-GF19-02
WEIGHT LBS: 0.48		SIZE B	DATE: _____
ASSEMBLY REF:		PRODUCT RELEASE # 071101-1	SHEET 2 OF 2