E. Electrical Modules

RF19 Family—Electrical Module

No Manual exists for this electrical module. A drawing is attached.

For additional information, please refer to our catalog or contact our Sales department. We will be glad to assist you.

How to Reach Us:

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Signal Legend
Pin O: 0 VDC (recommended) (See Note 1)
Pin U: 5-50 VDC 100mA Max (Tool ID) (See Note 3)

Notes:
1. Pin "O" is first to mate last to break at the tool changer interface.
   This pin is recommended for use as a ground.
2. DANGER! - For electrical modules using >60 VDC 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.
3. Pin "U" is common for tool ID (5-50 VDC 100mA Max).
"DANGER!" - Electrical Shock Hazard

This module has a Voltage of 50V or greater. 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.

3rd ANGLE PROJECTION

DANGER! - Electrical Shock Hazard
Notes:
1. Pin "O" is first to mate last to break at the tool changer interface. This pin is recommended for use as a ground.
2. Pin "U" is common for tool ID (5-50 VDC 100mA Max).

TABLE 1: TOOL ID BINARY OUTPUT

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<tr>
<th>Switch Selection</th>
<th>Pin</th>
<th>Pin</th>
<th>Pin</th>
<th>Pin</th>
<th>Pin</th>
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</table>
Serviceable Part: (V-Ring) 4010-0000030-01

Turck BSFD 19 Male Receptacle

RF19 Master Module (9120-RF19-M)

Serviceable Part: (V-Ring) 4010-0000030-01

Turck BKFD 19 Female Receptacle

RF19 Tool Module (9120-RF19-T)

Note:
1. See Sheet 2 for wiring and pin out.
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.

2. DANGER! - For electrical modules using >60 VDC 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.
Coupled (Approx.)
Lock Cable
Indicated with Green Tape
(3 Contact Quick Disconnect)
See Note 2

Unlock Cable
Indicated with Red Tape
(3 Contact Quick Disconnect)
See Note 2

Serviceable Part:
(V-Ring)
4010-0000030-01

Notes:
1. See sheet 2 for wiring and pin out.
2. Actual cable length is 200mm.
Notes:
1. Pin "O" is first to mate last to break at the tool changer interface. This pin is recommended for use as a ground.
2. Customer must supply 10-30 VDC on Master Pin "D", 0VDC on Pin "H".
3. Lock/Unlock signals will be returned on master connector pin "K" & "C" respectively.
4. DANGER! - For electrical modules using >60 VDC 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.
3rd ANGLE PROJECTION

77.2
Coupled (Approx.)

60.2

42.7

RF19PD Master Module
(9120-RF19PD-M)

RF19PD Tool Module
(9120-RF19PD-T)

Turck BSFD 19
Male Receptacle

Turck BKFD 19
Female Receptacle

44.9

64.8

Notes:
1. See sheet 2 for wiring and pin out.

Rev. Description Initiator Date
01 ECO# 6545 Initial Issue PS 7/24/2008
02 Eco 8762; Changed the Master overall height dimension 58.5 to 64.8 & Tool overall height from 47.3 to 57. Fixed Pin Block Assembly & Connector mates in Model.
CF 8/19/2011

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REVISION
NOTES: UNLESS OTHERWISE SPECIFIED.
DO NOT SCALE DRAWING.
ALL DIMENSIONS ARE IN MILLIMETERS.
DRAWN BY:
CHECKED BY:
P.Sparrow, 7/24/08
D.Swanson, 7/24/08

PROJECT # SHEET OF
9630-20-RF19PD- 02
RF19PD Pin Out

Turck BSFD 19 Male Connector

Turck BKFD 19 Female Connector

A --> B
B --> C
C --> D
D --> E
E --> F
F --> G
G --> H
H --> I
I --> J
J --> K
K --> L
L --> M
M --> N
N --> O
O --> P
P --> Q
Q --> R
R --> S
S --> T
T --> U
U --> V
V --> W
W --> X
X --> Y
Y --> Z
Z --> A

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 a VDC and/or ground service.
2) DANGER! - For electrical modules using >60 VDC 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.
Lock Cable Indicated with Green Tape (3 Contact Quick Disconnect)

Unlock Cable Indicated with Red Tape (3 Contact Quick Disconnect)

RF19W Master Module (9120-RF19W-M)

Lock/Unlock cables not shown for clarity

Turck BKFD 19 Female Receptacle

Serviceable Part: (V-Ring) 4010-0000030-01

Notes:
1. See sheet 2 for wiring and pin out.

RF19W Tool Module (9120-RF19-T)
3rd ANGLE PROJECTION

Master Side

Connector

Turck BSFD 19
Male Receptacle
Scale 4:1

Tool Side

Connector

Turck BKFD 19
Female Receptacle
Scale 4:1

Notes:
1. Pin "O" is first to mate last to break at the tool changer interface. This pin is recommended for use as a ground.
2. Customer must supply 10-30 VDC on Master Pin "D", 0VDC on Pin "H".
3. Lock/Unlock signals will be returned on master connector pin "K" & "C" respectively.
4. DANGER! - For electrical modules using >60 VDC 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.

Rev. Description Initiator Date
- See Sheet1 -

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NOTES: UNLESS OTHERWISE SPECIFIED.
DO NOT SCALE DRAWING.
ALL DIMENSIONS ARE IN MILLIMETERS.

DRAWN BY: J. Williams, 11/12/07
CHECKED BY: D. Lawson, 11/13/07

PROJECT # SHEET OF 9630-20-RF19WM RF19T071101-1 02

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RF19W Master with RF19 Tool Module Drawing
"DANGER!" - Electrical Shock Hazard

This module has a Voltage of 50V or greater, 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.

RF19G Master Module (9120-RF19G-M)

Turck BSFD 19 Male Receptacle

Turck BKFD 19 Female Receptacle

Serviceable Part: (V-Ring) 4010-0000030-01

Key

Tool ID Cover Removed for Clarity

Notes:
1. See sheet 2 for wiring and pin out.
2. Customer is to approve connector selection and orientation.
Pin O: 0 VDC (recommended) (See Note 1)
Pin U: Tool ID (See Note 3)

Notes:
1. Pin "O" is first to mate last to break at the tool changer interface. This pin is recommended for use as a ground.
2. Tool-ID Switch is rated for 0.1A / 30VDC
3. Pin "U" is common for tool ID.