

# TYPE FT-1 FLEXITEST SWITCH, SWITCH ARRANGEMENT & INTERNAL SCHEMATIC

REF.  
10 POS SW.  
UPPER SECTION  
FRONT VIEW  
(CVR REMOVED)

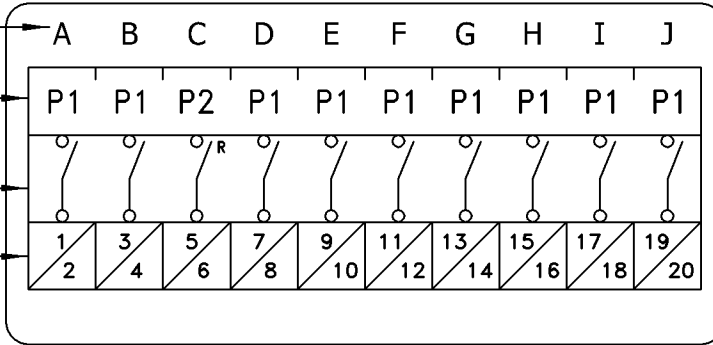


POLE  
POSITIONS

SWITCH  
ARRANGEMENT

INTERNAL  
SCHEMATIC

TERMINAL NO.s  
(REAR OF SW)



ARRANGEMENT: P P T P P P P P P P

**STYLE No:** 9676A90G01

**CODE No:** 490

**CLASS 1E:** NO

No. POLES: 10

No. POTENTIALS: 10

No. CURRENTS: 0

TIE BARS: NONE

DRILL PLAN: 129A500

INT SCHEMATIC: 991A490

Table 1 - Description of Poles for FT Flexitest Switches

| Pole Type              | Pole Designation |     | Handle Color       | Description & Schematic Symbol                                   |
|------------------------|------------------|-----|--------------------|--|
| Potential              | P1               | P   | Black <sup>†</sup> | Potential, non-shorting blade.                                   |
| Current                | C1               | C   | Black <sup>†</sup> | Current, non-shorting, with test jack and blade.                 |
| Current ††<br>Shorting | C1-C1            | C-C | Black <sup>†</sup> | Current shorting (make-before-break), with test jack and blade.  |
|                        | C1-A1            | C-A |                    | Current shorting (make-before-break), with blade only.           |
|                        | C1-B0            | C-B |                    | Current shorting (make-before-break), with stud only.            |
|                        | C1-D0            | C-D |                    | Current shorting (make-before-break), with test jack only.       |
|                        | C1-E1            | C-E |                    | Current shorting (make-before-break), with shorting blade only.  |
|                        | C1-S0            | C-S |                    | Current shorting (make-before-break), with fixed shorting strap. |
| Other                  | D0               | D   | None               | Current test jack, no blade.                                     |
|                        | S0               | S   | None               | Fixed shorting strap.  |
|                        | X0               | X   | None               | Empty pole position.   |

† = See Table 2 for complete list of color handles.

†† = Current shorting poles can span up to 5 positions, and can have any combination of color handles (ex: C1-C7-C5-C2-A4).

Table 2 – Handle Colors

| Pole Type | Pole Designation |   | Handle Color |
|-----------|------------------|---|--------------|
| Potential | P1               | P | Black        |
|           | P2               | T | Red          |
|           | P3               | H | Brown        |
|           | P4               | V | Purple       |
|           | P5               | G | Green        |
|           | P6               | Y | Yellow       |
|           | P7               | Z | Blue         |
|           | P8               | W | White        |
|           | P9               | O | Orange       |
| Current   | C1               | C | Black        |
|           | C2               | R | Red          |
|           | C3               | 3 | Brown        |
|           | C4               | 4 | Purple       |
|           | C5               | 5 | Green        |
|           | C6               | 6 | Yellow       |
|           | C7               | 7 | Blue         |
|           | C8               | 8 | White        |
|           | C9               | 9 | Orange       |

**TEST PLUGS:**

**INDIVIDUAL CURRENT CIRCUIT TEST PLUG.**  
STYLE No: 7B4618G04

**SEPARATE SOURCE TEST PLUG (10 POS).**  
STYLE No: 1164046

**IN-SERVICE SERIES TEST PLUG.**  
STYLE No: 129A062G10

ECO EM2007-1099 1

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SOFTWARE TYPE:  
AUTOCAD 2006

ENG. REF: MFG DWG: 101R816  
GEN DWG: 1616C24

DATE: M.Uriguen 4/3/2008

CHKR: M.Uriguen 4/3/2008

APPR: Tim Masters 4/3/2008



TITLE:  
**FT-1 SWITCH  
POLE ARRANGEMENT & INT SCH**

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SIZE: **A**

DWG. NO: **991A490**

REV: **1**

ABB Protective Relays and Switches, Coral Springs Fl, U.S.A.

SCALE: **NONE** SHEET 1 OF 1