SMITHS Indicator Type 9547

This indicator was used with the British STARN21 TACAN set. A coupler like the CU-392 is required to convert the tacan signals intended for the ID-307 azimuth and ID-310 Range indicators into signals for the four synchro’s in the type 9547 indicator.

The four synchro torque receivers drive: the azimuth pointer, tens and units (0…9) of the range, and the shutter. The shutter has 3 positions: a yellow bar (invalid), a “1” before the two digits, or no shutter. Spring action shows the invalid bar when the shutter synchro is not powered.

All 4 synchro torque receivers are identical, rated:
- Voltage 115V/90V, 400Hz.
- Rotor 500 ohm dc
- TYPE MOD 01 02 04
- Stator 3 x 350 ohm dc
- REF 10K/19434
- CODE ACS8/AF

The synchro’s differ in the color group on the wires. These are also shown on the connector pinout and the front view of the synchro’s as shown below.

Plug: Pattern 104- “Plessey” Mk4? 12 way dia 27mm

Yellow circles are the synchro’s, white are the number discs.