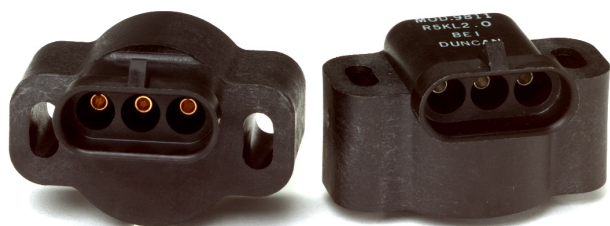


9800-SERIES

Rotary Sensor 0-145°



The Duncan 9800 series sensor is designed for rugged, continuous under hood environments. Features include high temperature, stable materials; insert molded integral connector/body design to eliminate weak/stress points or leaks during engine wash-down or water exposure.

To meet a variety of mounting area needs and interconnection requirements, ten standard models are available.

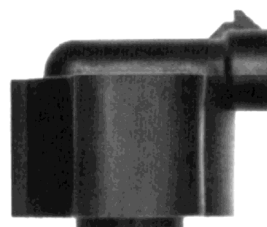
For engineering assistance or special configurations of the 9800 series to meet specific applications, contact Regal Components.



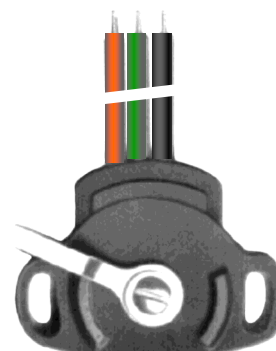
9805-9808
Driving blade



9805-9808
Offset connector style



9811-9814
90° connector style



9831-9832
Wire

ELECTRICAL SPECIFICATION

Active electric rotation	85°±2°
key drive	145°
Resistance	5 kΩ ±20%
Linearity over active rotation	
Standard	±2%
Special	±0,5%
Power rating at 70°C	0,15 W
Max supply voltage at 70°C	25 V
Recommended load	100 x R

ENVIRONMENTAL SPECIFICATION

Temperature range	-40°C- +135°C
Vibration	15 Gs, 50 till 1000 Hz
Humidity	95 % @ 38°C
Shock	50 Gs

MECHANICAL SPECIFICATION

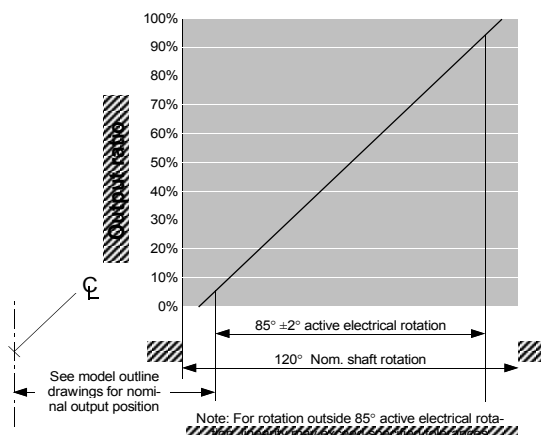
Mechanical rotation	120°
Key drive	180°
Mechanical life	5 milj cykler
Stop strenght	max 0,68 Nm
Torque	max 0,11 Nm
Mounting torque	max 1,35 Nm

Custom drive-arm / actuator configurations available. Most specifications may be altered to meet specific requirements.

Spring return orientation:

Spring returns slider to counter-clockwise end on CW sensors.
Spring returns slider to clockwise end on CCW sensors.

Mating connector



2015-01-26, specifications subject to change without notice

ISO 9001
BUREAU VERITAS
Certification



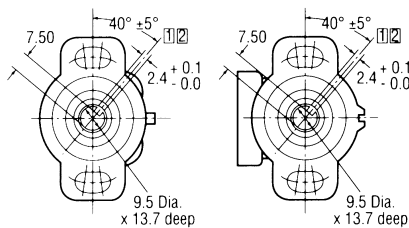
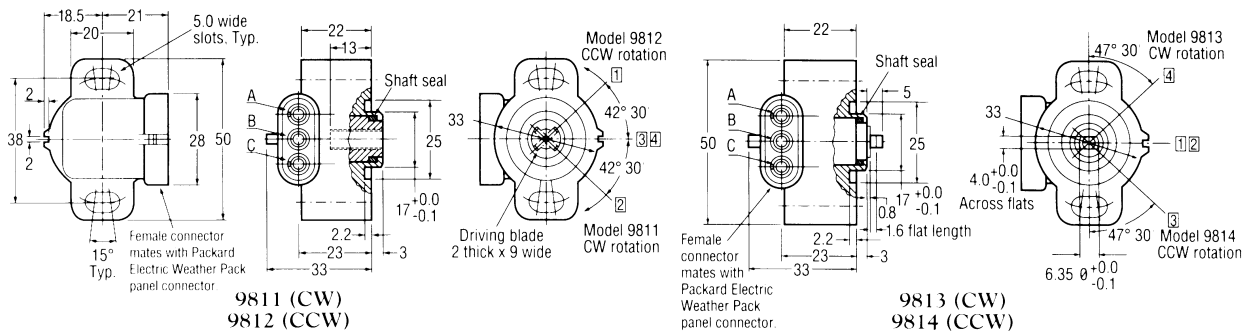
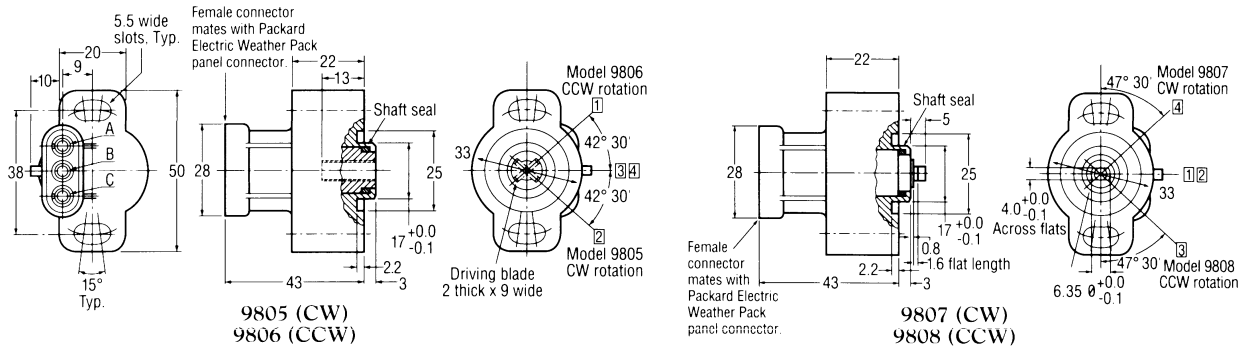
REGAL COMPONENTS AB • LEFFLERSGATAN 1 • SE-754 50 UPPSALA • SWEDEN
+46 (0)18-65 70 00 • WWW.REGAL.SE • INFO@REGAL.SE

Regal

9800-SERIES

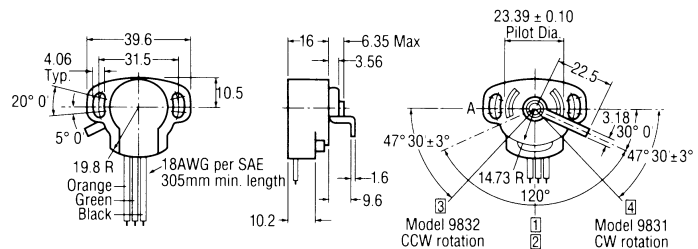
Rotary Sensor 0-145°

9800-SERIES DIMENSIONS & CONNECTION



For 9805/9806 Models For 9811, 9812 Models

KEY DRIVE OPTIONS FOR MODELS 9805, 9806, 9811, 9812

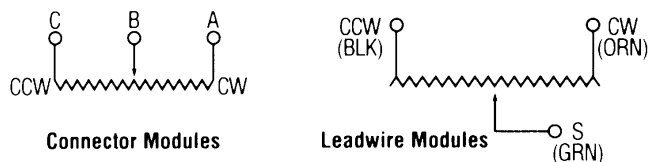


9831 (CW) 9832 (CCW)

Notes:

- 1 Nominal Midpoint of Mechanical Rotation for CCW Rotation.
- 2 Nominal Midpoint of Mechanical Rotation for CW Rotation.
- 3 Nominal 10% Output Position for CCW Rotation.
- 4 Nominal 10% Output Position for CW Rotation.
- 5 Both Driving Blades and Shaft are Shown in Midpoint Position.
- 6 All Dimensions and Values Shown in Metric.

Tolerances unless otherwise specified: ± 0.8 mm



2015-01-26, specifications subject to change without notice

