

Model/Series: SpindleShield Number: 040-750 GB Version: Rev C

Deublin Rotating Union with SpindleShield® Alert System

Description

The Deublin patented SpindleShield® system protects spindles by reliably warning the machine of leakage due to excessive seal wear. Long, expensive and unplanned machine standstill periods will be avoided.

All Deublin Rotating Union designs and Deublin Sealing Technologies can be equipped with the SpindleShield® alert system.

Industry

Application

Machine Tool All application with water-based coolant through the spindle (TSC)

Characteristics

Available for all union designs;

Bore-mounted, rotor-mounted; bearingless

Available for all Deublin seal technologies;

- AutoSense®; Pop-Off®; Closed Seal

Media Detection

Water-based Coolant;

Leak Sensor Features

- Reverse polarity protection
- Output short circuit protection
- ESD protection
- Wide operating voltage and temperature range
- Integrated leak sensor test function
- Very low power dissipation
- Zero leakage current if no load is attached at output



Sensor Specifications					Available Products		
Parameter	Min	Max	Unit	Notes	Part number	Seal technology	Union design
Operating voltage	18	28	V		1103-840-835	Pop-Off®	Bore-mounted
Operating temperature	-30	85	°C	•	1103-302-105	Pop-Off®	Bore-mounted
ESD protection on all 4 ports	•••••••	±2	kV	Human body model	1103-431-105	AutoSense®	Bore-mounted
Maximum output load	••••••	250	mA		1103-442-730	AutoSense®	Bore-mounted
switch drain current	·····	200			1103-440-188	AutoSense®	Rotor-mounted
Leak test function		Yes		Short to system ground to test leak function	1113-335-105	Closed Seal	Bore-mounted
Sensor power dissipation		0.36	W	Vout = Vin -5% Voltage drop			