

# DEUBLIN

## Rotary Union 1103 and 1113 Series with SpindleShield®

- Single passage
- For all union designs, bore-mounted, rotor-mounted, bearing-less
- For all seal technologies, AutoSense®, Pop-Off®, Closed Seal
- Patented technology warns the machine of leakage due to excessive seal wear with test function and media detection
- Wide operating voltage and temperature range
- Anodised aluminium housing resists corrosion
- CE-certified
- Optional available is a SpindleShield® model with free cable end

### Operating Data

The Operating Data correspond to the respective basic models (see catalog pages 15 to 19 and table below)



### Leak Sensor Features

- Media detection water-based coolant
- Reverse polarity protection
- Output short circuit protection
- ESD protection
- Integrated leak sensor test function
- Less than 50 µA standby mode current
- Fail safe design

Available with free cable end

Patented

M12 connector male 4 positions A coded

PIN 1: +24 VDC  
PIN 2: Test  
PIN 3: Ground  
PIN 4: Signal

	Ordering number	Seal technology	Basic model dimensions same as	see catalog page	Specification of Sensor				
					Parameter	Min	Max	Unit	Notes
Rotor-mounted	1103-020-188	Pop-Off®	1109-020-188	15	Operating voltage	15	28	V	direct current (DC)
	1103-021-188	Pop-Off®	1109-021-188	15	Operating temperature	-30	85	°C	
	1103-420-188	AutoSense®	1114-020-188	17	ESD-protection on all 4 ports		±2	kV	Human body model (HBM)
	1103-421-188	AutoSense®	1114-021-188	17	Maximum current		50	mA	At 28 V supply
Bore-mounted	1103-335-105	Pop-Off®	1111-335-105	16	Leakage test function		Yes		Short circuit to system ground test of leakage function
	1103-435-105	AutoSense®	1114-335-105	18	Signal Pin 4, output voltage V <sub>out</sub>	14.2	27.2	V	V <sub>out</sub> = V <sub>in</sub> - 0.8 V
	1113-333-105	Closed Seal	1108-333-105	14					
	1103-442-730	AutoSense®	1114-842-730	18					
	1103-342-730	Pop-Off®	1109-842-730	16					

### Accessory Ordering Number

1103-WLSB  
(Wireless Leak Sensor Box)

