

OIL IN AIR SENSOR

CHARACTERISTICS

- OIL IN AIR
 OPTICAL SENSING
 FOR MINIMAL
 LUBRICATION AIR
 OIL APPLICATION
- TWIN SENSING
 HEAD AT 90
 DEGREES PROVIDES
 SUPERIOR
 DETECTION IN ANY
 ORIENTATION
- EASILYINSTALLATION
- DIFFERENTIATED
 FLOW CATEGORY
 SENSING (3 LEVELS
 OF SENSITIVITY)
- PROVIDES
 ELECTRONIC
 FEEDBACK OF
 CORRECT
 OPERATION OF
 MINIMAL
 LUBRICATION
 SYSTEMS
- PROTECT BEARINGS
 FROM FAILURE!

Applications

- AIR/OIL SYSTEMS
 WITH CYCLIC PULSE
- SPINDLE HEAD

OIL IN AIR SENSOR

'OIL IN AIR SENSOR' is an optical sensor that detects the oil inside the air mainly used for MINIMAL lubrication air oil application.

This sensor is equipped with twin sensing head at 90° which provides a superior detection in any orientation than other sensors commercially available.

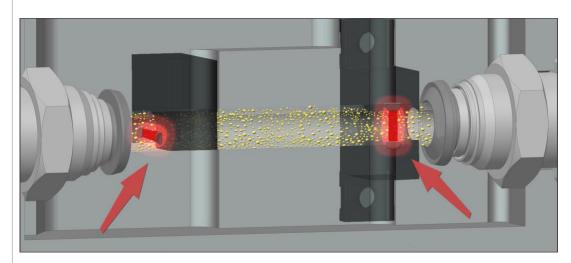
OIL IN AIR SENSOR is placed directly on the air-oil outlet pipes checking the correct presence of lubricant in the air, therefore provides electronic feedback of correct operation of minimal lubrication systems.



OPERATING PRINCIPLE

The sensor works with an optical sensing principle.

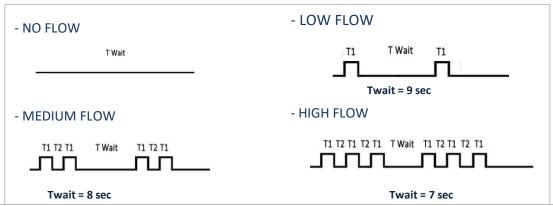
A superior detection is guaranteed by twin sensing head at 90 degrees which detect the presence of micro oil particles in multiple directions. This solution allows a better monitoring of the pipe section.



As shown above the optical sensing analyzes the passage of oil carried from the air in default time. According to oil quantity detected it generates a number of pulses proportional to detection. Number of pulses generated depends on system type and operating parameters, for example the air pressure.

The user according to system type can easily put in their PLC controller suitable number of pulses for a correct lubrication of system.

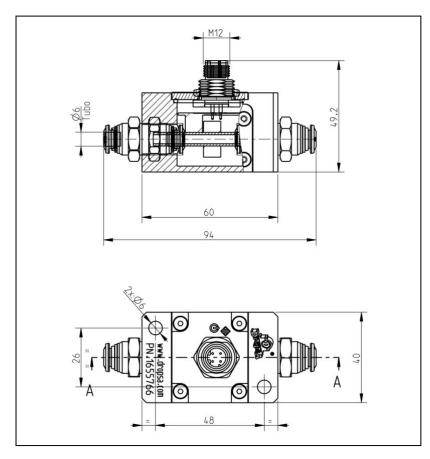
OUTPUT SIGNAL OF SENSOR: T1 =0,5 sec T2 = 0,5 sec

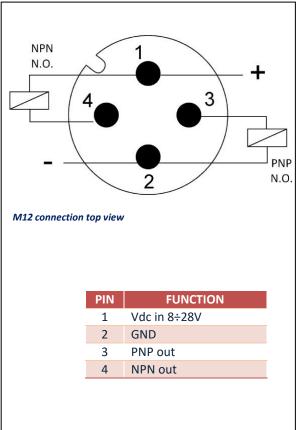




TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS		
Material	Aluminium anodized	
Minimum reading range	5 mm³/min	
Inlet - output minimum delta of air pressure	2 bar	
Voltage	8 ÷ 28 V DC	
Short circuit protection	Yes	
Protection degree	IP 67	
Connector	M12x1	
Output signals	NPN 2A - PNP 0,7A	





ORDERING INFORMATION

DESCRIPTION	PART NO.	
Oil in air sensor	1655766	
ACCESSORIES		
M12 female connector	0039999	
M12 female connector + 5 mt cable	0039815	

Info Distributor:

C2266PE WK 29/19