

L18 Laser Line 18mm Metal Housing  
300mm\* Range Diffuse Proximity Sensor



L18 (300mm) range 18mm housing  
Diffuse Proximity

Laser emission with teach in

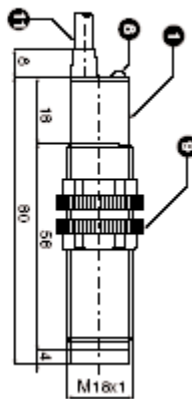
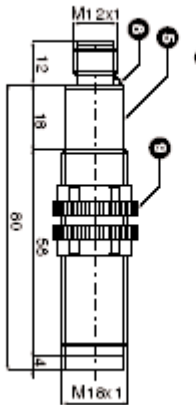
Great for use general harsh duty applications

4 wire 10-30VDC

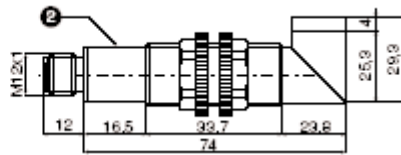
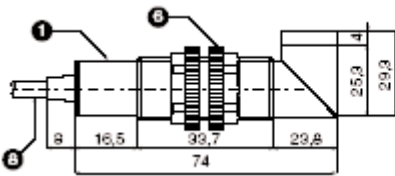
LED's for set up & diagnostics

M12 connector & cable available

Laser Line Series  
IP67 protection degree metal housing



- 1. - standard cable exit M1
- 5. - M12 connector K1
- 8. - LED indicators
- 9. - nut/hexagon nut
- 11. - cable 4(2)X0.34mm,4.7mm diameter, PVC, 2m



- 1. - standard cable exit M1
- 2. - M12 connector K1
- 6. - nut/hexagon nut
- 8. - cable 4(2)X0.34mm,4.7mm diameter, PVC,

Parts Matrix

photo electric sensor series	P	P
laser-diffuse proximity	TL	TL
300mm max range (200mm in 90 degree version)	300*	300*
18mm diameter	9	9
NBT metal housing	B	B
PNP	P	
NPN		N
light opearted/dark operated	8	8
q/qnot programming*	7	7
90 degree optics (radial) 200mm	R	
straight optics (axial) 300mm		T
2m standard integrated cable	M1	M1
K1 4 Pin 12mm connector	K1	K1

PARTS INDEX

PTL2009BP8RM1  
PTL2009BN8RM1

PTL2009BP8RK1  
PTL2009BN8RK1  
PTL2009BP7RK1  
PTL2009BN7RK1

PTL3009BP8TM1  
PTL3009BN8TM1

PTL3009BP8TK1  
PTL3009BN8TK1  
PTL3009BP7TK1  
PTL3009BN7TK1

SPECIFICATIONS

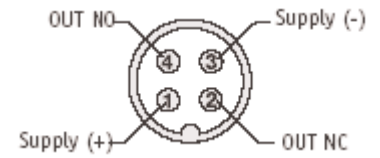
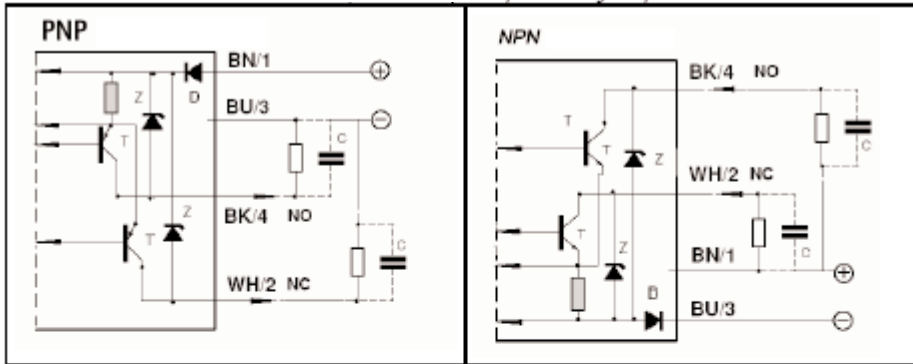
PNP L/D 90 DEGREE M1  
NPN L/D 90 DEGREE M1

PNP Q/QN 90 DEGREE K1  
NPN Q/QN 90 DEGREE K1  
PNP L/D 90 DEGREE K1  
NPN L/D 90 DEGREE K1

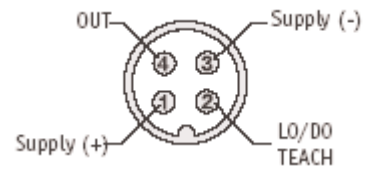
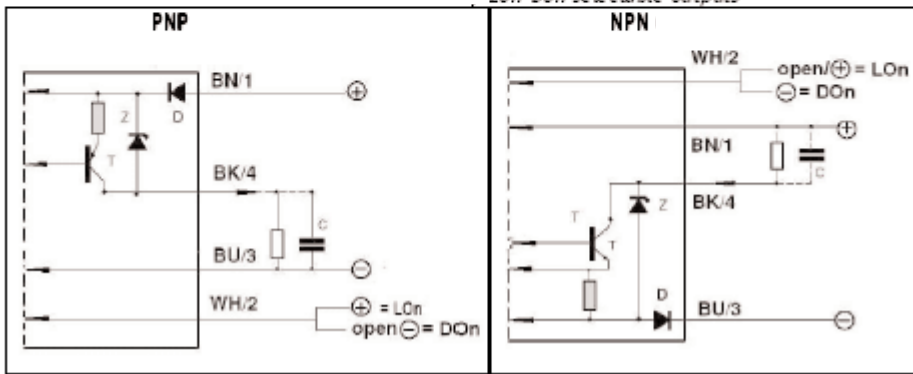
PNP L/D M1  
NPN L/D M1

PNP Q/QN K1  
NPN Q/QN K1  
PNP L/D K1  
NPN L/D K1

Complementary outputs



Lon-Don selectable outputs



Nominal Sensing Distance $S_n$	300mm axial/200mm radial
Emission	Red laser diode 650nm/class 1 laser (IEC60825-1)
Repeat accuracy	5%
Differential Travel	<10%
Operating Voltage $U_b$	10-30VDC
Ripple $U_{pp}$	<10%
No-load Supply	<30mA max
Load Current Max	100mA
Time Delay Before Available	200ms
Weight	200g
Voltage Drop $U_d$	2V max.(100mA)
Output Type	PNP or NPN; Q/Qnot output Lo/Do selectable
Minimum Detectable Object	.1mm
Switching Frequency	80Hz
Tightening Torque	40Nm
Supply Electrical Protections	polarity reversal, transient
Output Electrical Protections	short circuit protection (autoreset)
Ambient Temperature $T_a$	-55--+80C
Tempearture Drift	10% SR
Protection Degree (DIN 40 050)	IEC IP67
LED Indicators	Green (power supply) Yellow (on light state), (flashing light state), (off dark state)
Housing Material	NBT/Glass