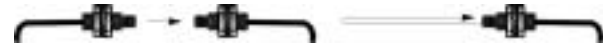## 1 SERIES STYLE

P = Plastic Fiber Family

2 FUNCTION MODE:

T = Opposed Mode (Individual Fiber)   D = Diffuse Mode (Bifurcated Fiber)

3 HOUSING STYLE:

M = Threaded   D = Smooth

4 HOUSING DISTANCE:

1.5 = 1.5mm   2.3 = 2.3mm   2.5 = 2.5mm
3 = 3mm   4 = 4mm   6 = 6mm   14 = 14mm

5 SENSING END DESIGNATOR:

T = Threaded   P = Probe   A = Angled   F = Ferruled

V = Probe Side View   W = Probe Side View   B = square side sensing   R = rectanglar

C = square top sensing   D = Fixed-focus reflective type   E = Fixed-focus reflective type   G = Fixed-focus reflective type   Y = Fixed-focus reflective type   LE = Easy mounting side sensing

S = Slot sensor   H = Bifurcated rectangular, side-view   WB = Wide beam   I = Fixed-focus reflective type   J = Fixed-focus reflective type   K = Fixed-focus reflective type

L = Easy mounting side sensing   M = Easy mounting top sensing   N = Wide area sensing   O = Wide area sensing   U = Easy mounting top sensing

X = Individual rectangular array   Z = Contact type   CO = Clamp-on type liquid-level detector   Q = Slot sensor right-anger fiber   MO = Mountable on pipe

Ordering code example

P D — M 4   T 01 2 S — 90

(1) P (2) D (3) M (4) 4 (5) T (6) 01 (7) 2 (8) S (9) 90

6 CORE FIBER DIAMETER:

|			
01=1.0	02=2.0	03=2.5	04=0.5	05=1.5
06=0.25	07=0.55	08=0.125	09=1.1	10=10.0
11=1.2	12=0.75	13=0.8	14=1.0x2	15=0.5x2
16=0.125x2	17=1.5x2	18=1.8x1	19=0.265x16	
20=0.25x4	21=0.25x16+1.0x1	22=0.265x9+0.5x1		
23=0.265x9+1.0x1	24=0.265x16+0.265x16			
25=0.25x2+0.25x2	26=0.265x32	27=0.125x9+0.265x1		
28=0.265x9+0.5x1	29=0.5x5+0.5x1	30=1.6x1+1.1x1		
31=2.2+1.3	32=0.25x7	33=0.265	34=0.25x7+0.25x7	
35=0.175x6+0.175x1	36=0.125x6+0.125x1	37=0.25x9+0.25x9		
38=0.25x9+0.5x1	39=0.25x2	40=50µmx380+50µmx380		
41=50µmx400+50µmx400	42=0.5+0.25x4	43=0.265x16+1		
44=0.25x9+0.5	45=6.0	46=3.0	47=4.75	
48=1acrylic lens	49=L2 lens	50=L2RA	51=20x25x3.2	
52=0.125x4	53=2.2	54=14.2x19x5	55=25x13x20	
56=2x0.75	57=6x18x14	58=26.2x14.5x6.4		
59=5x69x20	60=4..2x31x13.5	61=3x8x12		
62=8.5x12x3	63=3x12x3	64=5x15x15		
65=19x27x5	66=2x1.5x20	67=7x15x13		
68=5.2x9.5x15	69=24x21x4	70=15x19x3		
71=7x15x30	72=5x20x20	73=17x29x3.8		

7 FIBER LENGTH:

2 = 2m   1 = 1m   0.5 = 0.5m   T = other length

8 CONTROL END DESIGNATOR:

S = Unterminated Straight Cable   C = Unteminated Coiled Cable

9 THE LENGTH OF PROBE OR THREAD

90 = 90 mm   15 = 15 mm   5 = 5 mm   Blank = Not is probe type   A=3+12mm   B=2.5+10mm   C=5+10mm
D=3+15mm   E=3+11   F=3+17   G=3+17mm   H=5+12   J=5+15   K=2+20   L=3+10.9
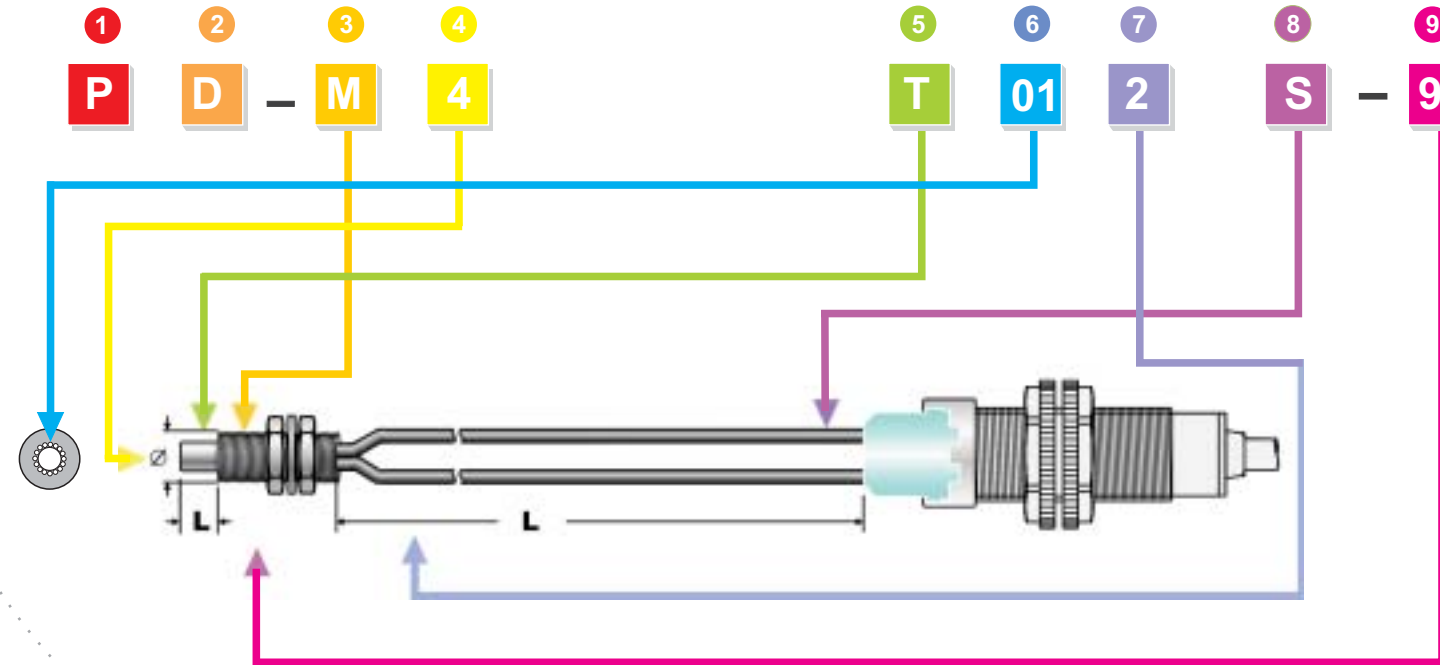
Plastic Fiber Optics Product Specifications

1. Sensing Range:
Refer to the excess gain curves for the fiber optic sensor to be used.

2. Construction:
Optical Fiber: acrylic monofilament.
Protective Jacket: black polyethylene.
Threaded End Tips and Hardware: nickel-plated brass.

3. Minimum Bend Radius:
8mm for 0.25 mm diameter fibers.
12 mm for 0.5 mm diameter fibers.
25 mm for 1.0 mm diameter fibers.
38 mm for 1.5 mm diameter fibers.

4. Repeat Bending/Flexing:
Life expectancy of plastic fiber optic cable is in excess of one million cycles at bend radii of no less than the minimum and a bend of 90°or less. Avoid stress at the point where the cable enters the sensor ("control end") and at the sensing end tip. Coiled plastic fiberoptic assemblies are recommended for any application requiring reciprocating fiber motion.