

NAMUR HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Diameter
☒ Shielded ☐ Non-shielded
Switching Distance Sn: mm
Housing Material
☒ With LED ☐ Without LED

Picture

M5

0.8 mm
Stainless steel




CE

M8	
	
1 mm	2 mm
Stainless steel or Nickel plated brass	
	

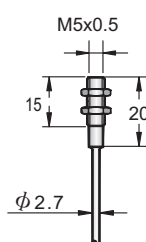


CE

Operating Voltage
Ripple
No Load Current
Response Time
Switching Frequency
Switching Hysteresis
Repeat Accuracy
Protection Category
Operating Temperature
Temperature Drift
Short Circuit Protection
Overload Trip Point
Time Delay Before Availability
EMC
Shock / Vibration
Material Active Face

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)
DC 2 wire 10-60V N.O.
DC 2 wire 10-60V N.C.
NAMUR
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36V NPN N.O.
DC 3 wire 5-36V NPN N.C.
DC 3 wire 5-36V PNP N.O.
DC 3 wire 5-36V PNP N.C.
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)

Dimensions (unit: mm)



Cable 2M (Silicon)
Weight

6-12VDC
-
>2.2mA(OFF) <1.1mA(ON)
2KHZ
0.05ms/0.05ms
<15%(Sr)
-
IP67
-25°C - +110°C
<2%(Sr)
-
-
<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
PBT

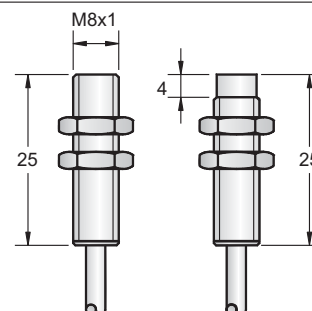
[illegible]

Silicon Cable, 2. 7Ø 2x0.15
Approx.25 g

6-12VDC	
-	
>2.2mA(OFF) <1.1mA(ON)	
2KHZ	1KHZ
0.05ms/0.05ms	0.1ms/0.1ms
<15%(Sr)	
-	
IP67	
-25 °C - +110 °C	
<2%(Sr)	
-	
-	
<10ms	
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
PBT	

[illegible]

Silicon Cable, 2.7Ø 2x0.15	
Approx.34 g	Approx.33 g

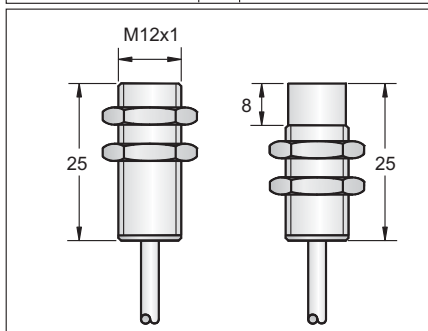


NAMUR HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

M12	
	
2 mm	4 mm
Stainless steel or Nickel plated brass	
	

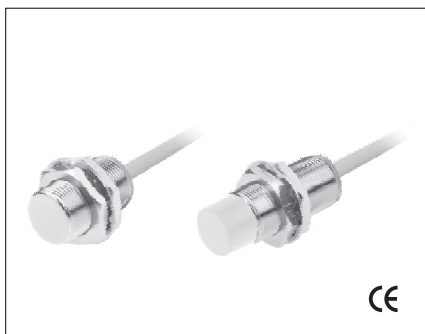


6-12VDC	
-	
>2.2mA(OFF) <1.1mA(ON)	
0.05ms/0.05ms	0.1ms/0.1ms
2KHZ	1KHZ
<15%(Sr)	
-	
IP67	
-25 °C - +110 °C	
<2%(Sr)	
-	
-	
<10ms	
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
PBT	

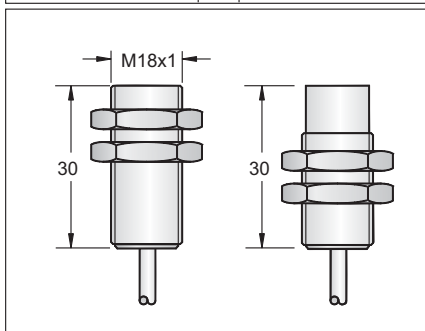
[illegible]

Silicon Cable, 4Ø 2x0.34	
Approx.42 g	Approx.41 g

M18	
	
5 mm	8 mm
Stainless steel or Nickel plated brass	
	



6-12VDC	
-	
>2.2mA(OFF) <1.1mA(ON)	
0.2ms/0.2ms	0.5ms/0.5ms
1KHZ	500HZ
<15%(Sr)	
-	
IP67	
-25°C - +110°C	
<2%(Sr)	
-	
-	
<10ms	
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
PBT	

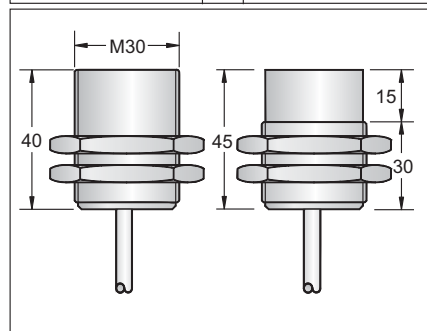
[illegible]

Silicon Cable, 5.8Ø 2x0.34	
Approx.126 g	Approx.124 g

M30	
	
10 mm	15 mm
Stainless steel or Nickel plated brass	
	



6-12VDC	
-	
>2.2mA(OFF) <1.1mA(ON)	
0.1ms/0.1ms	0.5ms/0.5ms
1KHZ	500HZ
<15%(Sr)	
-	
IP67	
-25°C - +110°C	
<2%(Sr)	
-	
-	
<10ms	
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
PBT	

[illegible]

Silicon Cable, 5.8Ø 2x0.34	
Approx.185 g	Approx.167 g

DC HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Diameter

● Shielded	○ Non-shielded
Switching Distance Sn: mm	
Housing Material	
● With LED	○ Without LED

Picture

Operating Voltage
Ripple
No Load Current
Max. Load Current
Leakage Current
Voltage Drop
Switching Frequency
Response Time
Switching Hysteresis
Repeat Accuracy
Protection Category
Operating Temperature
Temperature Drift
Short Circuit Protection
Overload Trip Point
Material Active Face

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)
DC 2 wire 10-60V N.O. *
DC 2 wire 10-60V N.C. *
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36V NPN N.O.
DC 3 wire 5-36V NPN N.C.
DC 3 wire 5-36V PNP N.O.
DC 3 wire 5-36V PNP N.C.
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)

Dimensions (unit: mm)

* : DC 2wire 10-60V specifications
see page 3-05. Other is same.

Cable 2M (Silicon)
Weight

M5

	●
	0.8 mm
	Stainless steel
	●



CE

10-30VDC
<10%
<10mA
150mA
<0.01mA
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +110°C
<10%(Sr)
YES
220mA
PBT

[illegible]

Technical drawing of the LED probe (Fig. 1) showing dimensions: M5x0.5, 28, 19, 23, LED, and $\phi 2.7$.

Silicon Cable, 2. 7Ø 3x0.15
Approx.25 g

M8

	
1mm	2mm
Stainless steel or Nickel plated brass	
	



10-30VDC/10-60VDC
<10%
<10mA
150mA
<0.01mA
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +110°C
<10%(Sr)
YES
220mA
PBT

[illegible]

Silicon Cable, 3Ø 3x0.15 or 3Ø 4x0.15	
Approx.40 g	Approx.38 g

DC HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS



CE

[illegible]

Silicon Cable, 3Ø 3x0.15 or 3Ø 4x0.15	
Approx.67 g	Approx.65 g



Two stainless steel needle probes are shown, one slightly behind the other. They have a cylindrical body with a black ring near the base and a thin needle extending from the front. A CE marking is visible in the bottom right corner of the image area.

[illegible]

Silicon Cable, 5.8Ø 3x0.5 or 5.8Ø 4x0.5	
Approx.161 g	Approx.160 g



Two stainless steel push buttons with a cable, one with a red cap and one with a grey cap.

[illegible]

Silicon Cable, 5.8Ø 3x0.5 or 5.8Ø 4x0.5	
Approx.217 g	Approx.207 g

DC HIGH TEMPERATURE 5 WAY ROTATABL SENSING HEAD

Diameter

● Shielded ○ Non-shielded

Switching Distance Sn: mm

Housing Material

● With LED ○ Without LED

Picture

Operating Voltage

Ripple

No Load Current

Max. Load Current

Leakage Current

Voltage Drop

Switching Frequency

Response Time

Switching Hysteresis

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short Circuit Protection

Overload Trip Point

Material Active Face

DC 3 wire 10-30V NPN N.O.

DC 3 wire 10-30V NPN N.C.

DC 3 wire 10-30V PNP N.O.

DC 3 wire 10-30V PNP N.C.

DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)

DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)

DC 2 wire 10-60V N.O. *

DC 2 wire 10-60V N.C. *

DC 3 wire 10-55V NPN N.O.

DC 3 wire 10-55V NPN N.C.

DC 3 wire 10-55V PNP N.O.

DC 3 wire 10-55V PNP N.C.

DC 3 wire 5-36V NPN N.O.

DC 3 wire 5-36V NPN N.C.

DC 3 wire 5-36V PNP N.O.

DC 3 wire 5-36V PNP N.C.

DC 4 wire 5-36V Changeover PNP (N.O. & N.C.)

DC 4 wire 5-36V Changeover NPN (N.O. & N.C.)

Dimensions (unit: mm)

* : DC 2wire 10-60V specifications see page 3-05. Other is same.

Cable 2M (Silicon)

Weight

Q40s

●

15 mm

PBT RESIN

●



10-30VDC / 10-60VDC

<10%

<10mA

150mA

<0.01mA

<1.5V

100HZ

1ms/1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +110°C

<10%(Sr)

YES

220mA

PBT

P1S1P4015NOES4T 31

P1S1P4015NCES4T 32

P1S1P4015POES4T 33

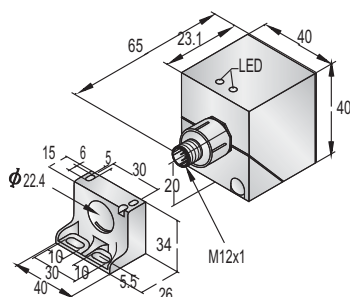
P1S1P4015PCES4T 34

P1S1P4015PSES4T 36

P1S1P4015NSES4T 35

P4S1P4015COES4T 37

P4S1P4015CCES4T 38



Approx.170 g

Q40s

○

30 mm

PBT RESIN

●



10-30VDC / 10-60VDC

<10%

<10mA

150mA

<0.01mA

<1.5V

100HZ

1ms/1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +110°C

<10%(Sr)

YES

220mA

PBT

P1S2P4030NOES4T 31

P1S2P4030NCES4T 32

P1S2P4030POES4T 33

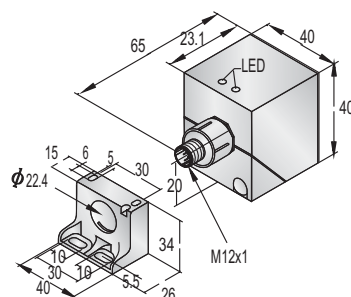
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P1S2P4030PSES4T 36

P1S2P4030NSES4T 35

P4S2P4030COES4T 37

P4S2P4030CCES4T 38



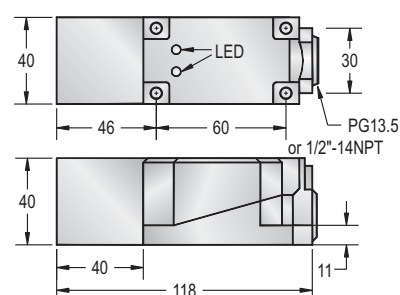
Approx.170 g

DC HIGH TEMPERATURE 5 WAY ROTATABLE SENSING HEAD

Q40
○
30 mm
PBT RESIN
●



10-30VDC / 10-60VDC
<10%
<10mA
150mA
<0.01mA
<1.5V
100HZ
1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +110°C
<10%(Sr)
YES
220mA
PBT

[illegible]

Approx.262 g

AC HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Diameter

● Shielded ○ Non-shielded

Switching Distance Sn: mm

Housing Material

● With LED ○ Without LED

Picture

Operating Voltage

No Load Current

Max. Load Current

Leakage Current

Surge Current

Min. Load Current

Voltage Drop

Switching Frequency

Response Time

Switching Hysteresis

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short Circuit Protection

Material Active Face

DC 3 wire 10-30V NPN N.O.

DC 3 wire 10-30V NPN N.C.

DC 3 wire 10-30V PNP N.O.

DC 3 wire 10-30V PNP N.C.

DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)

DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)

DC 2 wire 10-60V N.O.

DC 2 wire 10-60V N.C.

DC 3 wire 10-55V NPN N.O.

DC 3 wire 10-55V NPN N.C.

DC 3 wire 10-55V PNP N.O.

DC 3 wire 10-55V PNP N.C.

AC 2 wire 20-250V N.O.

AC 2 wire 20-250V N.C.

AC 2 wire 20-250V N.O. or N.C. Changeable

AC/DC 2 wire 20-250V N.O.

AC/DC 2 wire 20-250V N.C.

AC/DC 2 wire 20-250V N.O. or N.C. Changeable

Dimensions (unit: mm)

Cable 2M (Silicon)

Weight

M12

●

○

2 mm

4 mm

Stainless steel or Nickel plated brass

●



CE

20-250VAC

<1.8mA

400mA

<1.8mA

5A(20ms)

5mA

<8VAC AT 400mA

<25HZ

10ms/10ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +110 °C

<10%(Sr)

NO

PBT

P7C1B1202AO3B2T

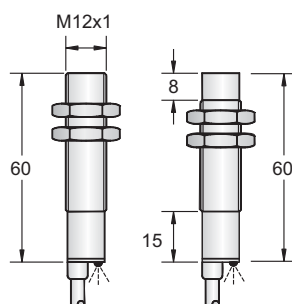
15

P7C2B1204AO3B2T

P7C1B1202AC3B2T

16

P7C2B1204AC3B2T



Silicon Cable, 4Ø 3x0.34

Approx.77 g

Approx.76 g

M12

●

○

2 mm

4 mm

Stainless steel or Nickel plated brass

●



CE

20-250VAC

<1.8mA

400mA

<1.8mA

5A(20ms)

5mA

<8VAC AT 400mA

<25HZ

10ms/10ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +110 °C

<10%(Sr)

NO

PBT

P7C1B1202AOMB3T

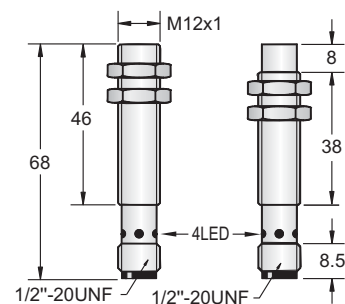
51

P7C2B1204AOMB3T

P7C1B1202ACMB3T

51

P7C2B1204ACMB3T



Approx.31 g

Approx.30 g

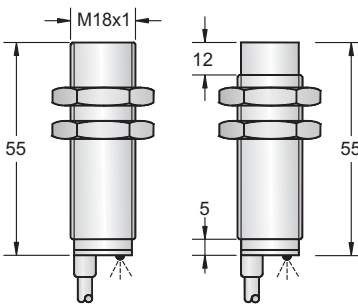
AC HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

M18	
	
5 mm	8 mm
Stainless steel or Nickel plated brass	
	



20-250VAC
<1.8mA
400mA
<1.8mA
5A(20ms)
5mA
<8VAC AT 400MA
<25HZ
10ms/10ms
<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +110°C
<10%(Sr)
NO
PBT

P7C1B1805AO3B2T	15	P7C2B1808AO3B2T
P7C1B1805AC3B2T	16	P7C2B1808AC3B2T



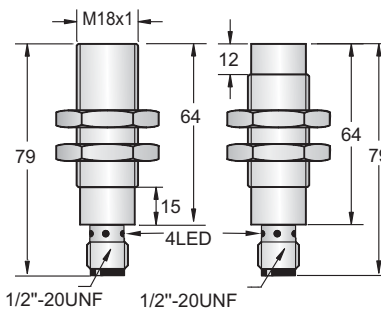
Silicon Cable, 5.8Ø 3x0.5	
Approx.161 g	Approx.160 g

M18	
	
5 mm	8 mm
Stainless steel or Nickel plated brass	
	



20-250VAC
<1.8mA
400mA
<1.8mA
5A(20ms)
5mA
<8VAC AT 400MA
<25HZ
10ms/10ms
<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)
NO
PBT

P7C1B1805AOMB3T	51	P7C2B1808AOMB3T
P7C1B1805ACMB3T	51	P7C2B1808ACMB3T



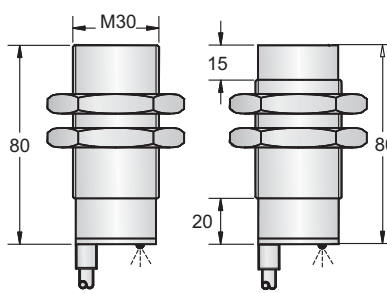
Approx.84 g	Approx.80 g

M30	
	
10 mm	15 mm
Stainless steel or Nickel plated brass	
	



20-250VAC
<1.8mA
400mA
<1.8mA
5A(20ms)
5mA
<8VAC at 400MA
<25HZ
10ms/10ms
<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +110 °C
<10%(Sr)
NO
PBT

P7C1B3010A03B2T	15	P7C2B3015A03B2T
P7C1B3010AC3B2T	16	P7C2B3015AC3B2T



Silicon Cable, 5.8Ø 3x0.5	
Approx.247 g	Approx.237 g

AC HIGH TEMPERATURE 5 WAY ROTATABL SENSING HEAD

Diameter

● Shielded ○ Non-shielded

Switching Distance Sn: mm

Housing Material

● With LED ○ Without LED

Picture

Operating Voltage

No Load Current

Max. Load Current

Leakage Current

Surge Current

Min. Load Current

Voltage Drop

Switching Frequency

Response Time

Switching Hysteresis

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short Circuit Protection

Material Active Face

DC 3 wire 10-30V NPN N.O.

DC 3 wire 10-30V NPN N.C.

DC 3 wire 10-30V PNP N.O.

DC 3 wire 10-30V PNP N.C.

DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)

DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)

DC 2 wire 10-60V N.O.

DC 2 wire 10-60V N.C.

DC 3 wire 10-55V NPN N.O.

DC 3 wire 10-55V NPN N.C.

DC 3 wire 10-55V PNP N.O.

DC 3 wire 10-55V PNP N.C.

AC 2 wire 20-250V N.O.

AC 2 wire 20-250V N.C.

AC 2 wire 20-250V N.O. or N.C. Changeable

AC/DC 2 wire 20-250V N.O.

AC/DC 2 wire 20-250V N.C.

AC/DC 2 wire 20-250V N.O. or N.C. Changeable

Dimensions (unit: mm)

Cable 2M (PVC)

Weight

Q40s

○

30 mm

PBT RESIN

●



20-250VAC

<2.5mA

400mA

2.5mA

5A(20ms)

5mA

<8VAC AT 400MA

<25HZ

10ms/10ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +110 °C

<10%(Sr)

-

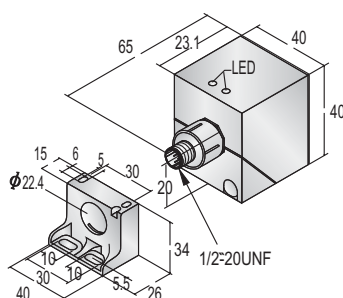
PBT

P7S2P4030AOMS3T

52

P7S2P4030ACMS3T

52



Approx.170 g

Q40s

●

15 mm

PBT RESIN

●



20-250VAC

<2.5mA

400mA

2.5mA

5A(20ms)

5mA

<8VAC AT 400MA

<25HZ

10ms/10ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +110 °C

<10%(Sr)

-

PBT

P7S1P4015AOZS2T

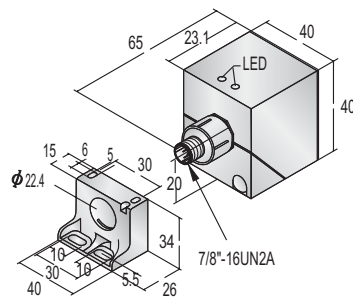
56

P7S1P4015ACZS2T

56

P7S1P4015AAZS4T

42



Approx.170 g

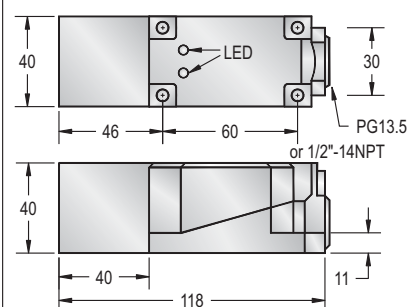
AC HIGH TEMPERATURE 5 WAY ROTATABLE SENSING HEAD

Q40
○
30 mm
PBT RESIN
●



20-250VAC
<2.5mA
400mA
2.5mA
5A(20ms)
5mA
<8VAC AT 400MA
<25HZ
10ms/10ms
<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +110°C
<10%(Sr)
PBT

P7S2P4030AO2BT	9
P7S2P4030AC2BT	10
P7S2P4030AA4BT	21



Approx.262 g
