M5 SERIES

- ---High operating distance up to 50mm.
- ---Very small housing.
- ---Complete device, no amplifier needed.
- ---Voltage range 10V...30V DC, output current 100mA short circuit protected.
- ---Optical parts made of glass, easy cleaning.



Diffuse reflection

0...50 mm



Diffuse reflection

M5-D0050P-LX9Q3UM/SN

M5-D0050N-LX9Q3UM/SN

0...50 mm

Sensing type
Sensing distance
Model description
PNP 50mm

NPN 50mm M5-D0050N-L X9C3H2	PNP 50mm	M5-D0050P-LX9C3U2
MO BOOOTI EXOCOCE	NPN 50mm	M5-D0050N-LX9C3U2

M5-D0050N-LX9C3U2
LED
Standard white, 100mm x 100mm
Infrared, alternating light
10000 Lux
Switching state: LED yellow
Pre-fault indicator: LED yellow flashing
1030V DC
10%
≤15 mA

≤20 ms
Light ON
1 switch output
Max. 30V DC
Max. 100 mA
≤250 Hz

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	Connector(M5x0.5), 3-pin, snap in
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Light source
Reference target
Light type
Ambient light limit
Function display
Operating voltage
Ripple
No-load supply current I₀
Time delay before availability $ {\bf t}_{{\mbox{\tiny v}}} $
Switching type
Signal output
Switching voltage
Switching current
Switching frequency f
Response time
Ambient temperature
Protection degree

≤3 ms
055°C(273328K)
IP67
2 m PVC cable
V2A
Scratch resistant mineral glass lens

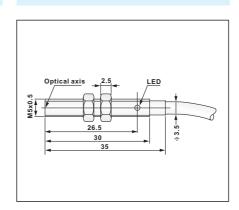


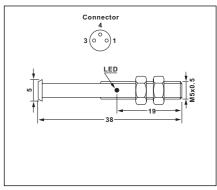
Connection

Housing material

Optical face material

All dimensions in mm





M5 SERIES

- ---High operating distance up to 50mm.
- ---Very small housing.
- ---Complete device, no amplifier needed.
- ---Voltage range 10V...30V DC, output current 100mA short circuit protected.
- ---Optical parts made of glass, easy cleaning.





Sensing type
Sensing distance
Model description
PNP 50mm
NPN 50mm

M5-D0050P-LX9Q3UM
M5-D0050N-LYQO3HM

LED

Diffuse reflection

0...50 mm

M5-D0050P-LX9Q3UP	
M5-D0050N-LX9Q3UP	
•	

Diffuse reflection

0...50 mm

NPN 50mm
Light source
Reference target
Light type
Ambient light limit
Function display
Operating voltage
Ripple
No-load supply current I₀
Time delay before availability $t_{\scriptscriptstyle v}$
Switching type
Signal output
Switching voltage
Switching current
Switching frequency f
Response time
Ambient temperature
Protection degree

Standard white, 100mm x 100mm
Infrared, alternating light
10000 Lux
Switching state: LED yellow
Pre-fault indicator: LED yellow flashin
1030V DC
10%
≤15 mA
≤20 ms
Light ON
1 switch output
Max. 30V DC
Max. 100 mA
≤250 Hz
≤3 ms
055°C(273328K)
IP67
Connector(M5x0.5), 3-pin
V2A
Scratch resistant mineral glass lens

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	Connector(M8x1), 3-pin
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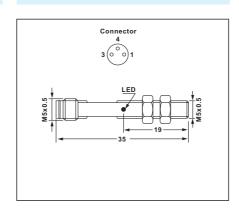
Dimensions

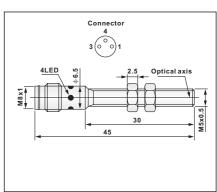
Connection

Housing material

Optical face material

All dimensions in mm

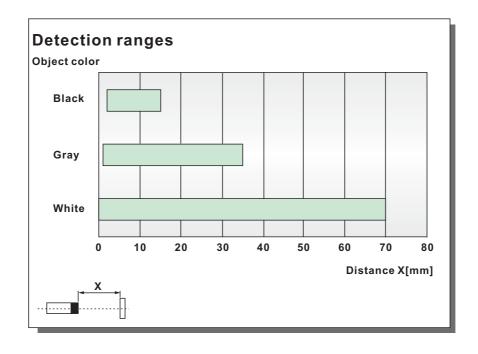


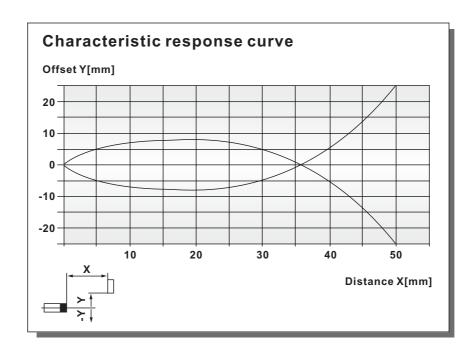






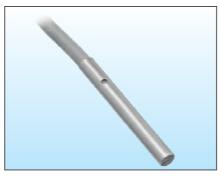
Curves/Diagrams







- ---Large sensor range up to 50mm.
- ---Very small housing.
- --- Complete device, no amplifier needed.
- ---Voltage range 10V...30V DC, output current 100mA short circuit protected.
- ---Optical parts made of glass, easy cleaning.





Sensing type
Sensing distance
Model description
PNP 50mm
NPN 50mm

Light source Reference target

Light type

Ripple

Ambient light limit Function display

Operating voltage

Switching type Signal output Switching voltage **Switching current** Switching frequency f

Response time

Ambient temperature Protection degree Connection Housing material Optical face material

No-load supply current $\,I_{\scriptscriptstyle 0}\,$ Time delay before availability t_{ν}

Diffuse reflection
050 mm
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φ4-D0050P-LX9C3U2
Δ4-D0050N-I Y9C3II2

Ψ 4-D0030N-LX9C3U2
LED
Standard white, 100mm x 100mm
Infrared, alternating light
10000 Lux
Switching state: LED yellow

Standard	l white, 100mm x 100mm
Infrared,	alternating light
10000 Lu	х
Switchin	g state: LED yellow
Pre-fault	indicator: LED yellow flashing
1030V	DC
10%	
≤15 mA	
≤20 ms	
Light ON	
1 switch	output
Max. 30V	DC
Max. 100	mA
≤250 Hz	
≤3 ms	
055℃(2	273328K)

LED		
Standard white, 100mm x 100mm		
Infrared, alternating light		
10000 Lux		
Switching state: LED yellow		
Pre-fault indicator: LED yellow flashing	g	
1030V DC		
10%		
≤15 mA		
≤20 ms		
Light ON		
1 switch output		
Max. 30V DC		
Max. 100 mA		
≤250 Hz		
≤3 ms		
055℃(273328K)		
IP67		
2 m PVC cable		Conn
V2A		
Scratch resistant mineral glass lens		

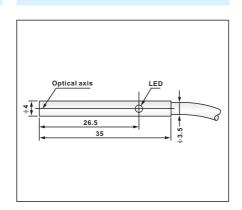
Diffuse reflection
050 mm

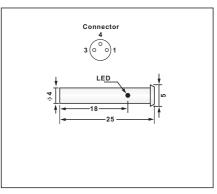
Ф4-D0050P-LX9Q3UM/SN
Φ 4-D0050N-LX9Q3UM/SN
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Connector(M5x0.5), 3-pin, snap in
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Dimensions

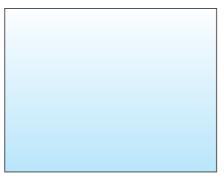
All dimensions in mm







- ---Large sensor range up to 50mm.
- ---Very small housing.
- ---Complete device, no amplifier needed.
- ---Voltage range 10V...30V DC, output current 100mA short circuit protected.
- ---Optical parts made of glass, easy cleaning.



Diffuse reflection

0...50 mm



Diffuse reflection

0...50 mm

Sensing type	
Sensing distance	
Model description	
PNP 50mm	
NPN 50mm	
Light source	
Reference target	
Light type	

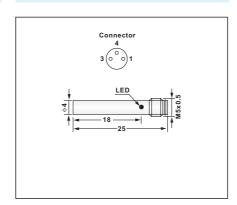
	NPN 50mm
ı	Light source
	Reference target
I	Light type
1	Ambient light limit
ı	Function display
(Operating voltage
ı	Ripple
1	No-load supply current I₀
•	Fime delay before availability ${f t}_{_{\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $
,	Switching type
,	Signal output
,	Switching voltage
,	Switching current
,	Switching frequency f
ı	Response time
1	Ambient temperature
ı	Protection degree
(Connection
ı	Housing material
(Optical face material

Φ4-D0050P-LX9Q3UM
Φ4-D0050N-LX9Q3UM
LED
Standard white, 100mm x 100mm
Infrared, alternating light
10000 Lux
Switching state: LED yellow
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1030V DC
10%
≤15 mA
≤20 ms
Light ON
1 switch output
Max. 30V DC
Max. 100 mA
≤250 Hz
≤3 ms
055℃(273328K)
IP67
Connector(M5x0.5), 3-pin
V2A

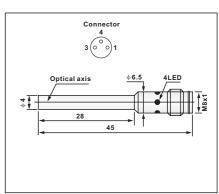
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Φ 4-D0050P-LX9Q3UP
Φ 4-D0050N-LX9Q3UP
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Connector(M8x1), 3-pin
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Dimensions

All dimensions in mm



Scratch resistant mineral glass lens





Curves/Diagrams

