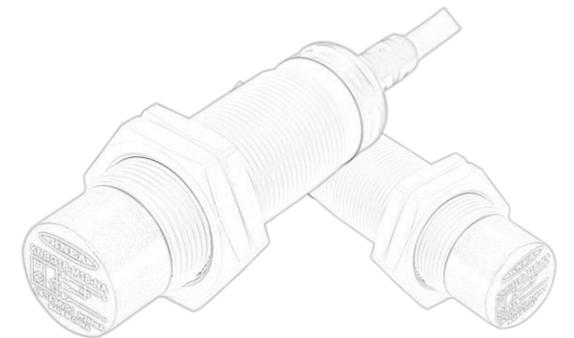


 The product data referred to in the company shall be subject to material object. Subject to change without notice. The company has the final right to interpret.

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SENSORS

Everything for electrical safety

GEYA
ZHEJIANG GEYA ELECTRICAL CO.LTD.

ADD: Wenzhou Brige Industrial Zone, Beibaixiang Town, Yueqing, Zhejiang, China 325603
Tel: 0086-577-62771036 Tel: 0086-13567770207
E-mail: sale@cngeya.com Web: www.geya.net



PROFESSIONAL MANUFACTURER OF HIGH-END SENSORS



ZHEJIANG GEYA ELECTRICAL CO.,LTD

Founded in 2007, Geya Electrical Co. Ltd was located in Wenzhou, Zhejiang, China. Our company integrates R&D, production and sales, and committed to be the technology enterprise of low-voltage electrical equipment and automation control products.

After years of operating, our annual turnover has exceeded 100 million yuan. Geya's product series involve a variety of low-voltage electrical equipment and automation control products, including miniature circuit breaker (MCB), molded case circuit breaker (MCCB), residual circuit breaker (RCB), isolation switch, contactors, relays, timer, distribution box, etc. The product series are complete and the application fields are wide, which is widely recognized by domestic and foreign customers.



Our four major sales areas cover six continents, and Geya has been chosen and trusted by more than 40 foreign companies. We takes the development concept of "pursue nature of things, reach to the world", sticking to high standards and high quality.

We have obtained a number of national invention patents, and deployed our brand GEYA in most countries around the world. Global certifications include CCC, CE, SAA, SEMKO, TUV, CE and other EU authoritative certifications.

Our sales team gradually promote Geya brand to the global market, we sincerely welcome customers to achieve win-win and common development with Geya!

DO THE BEST

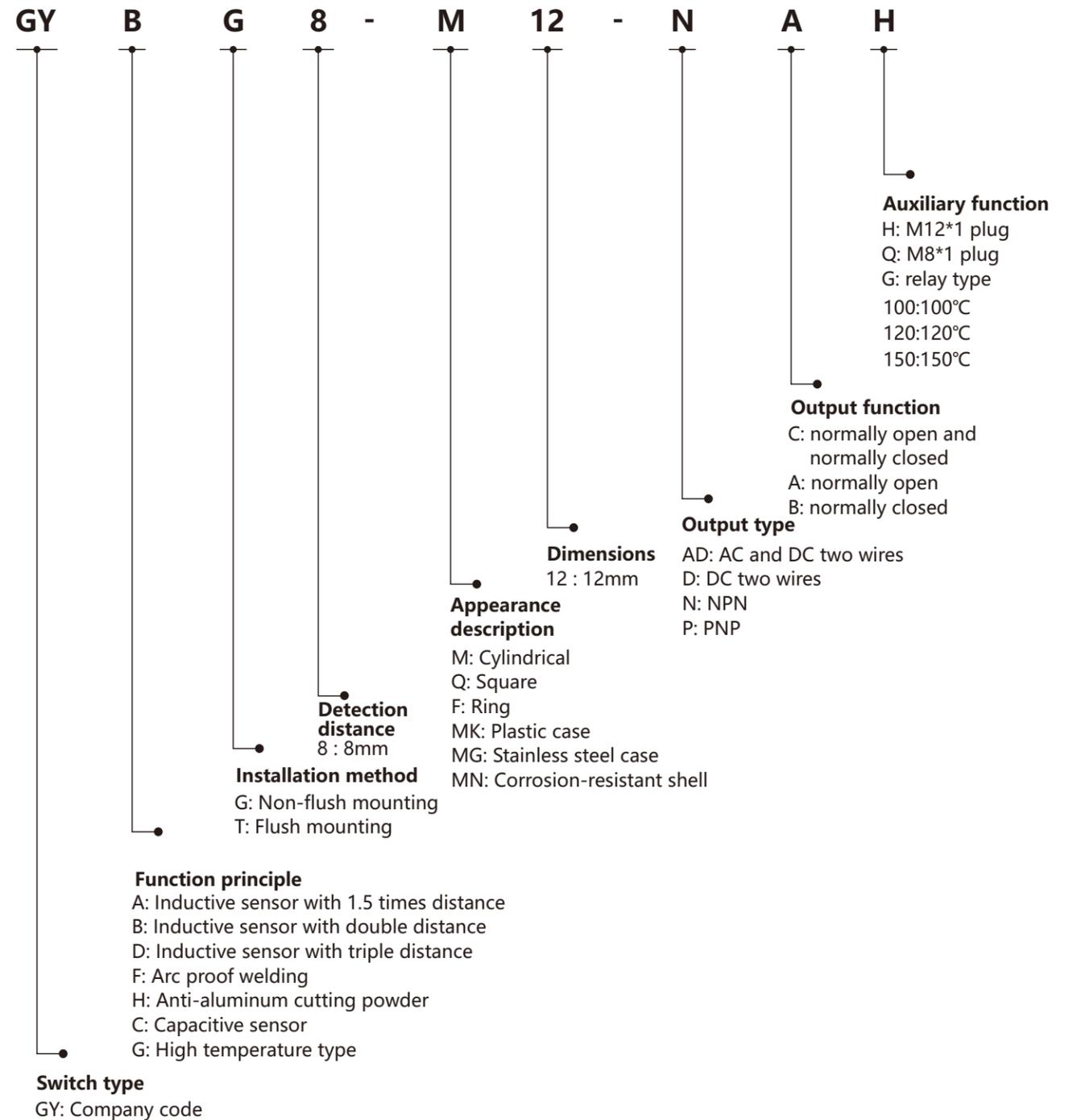


GEVA

**PURSUE NATURE OF THINGS
REACH TO THE WORLD**

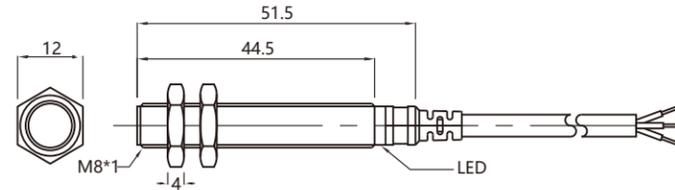
Zhejiang geya electrical co.,ltd

Inductive sensor model description





Dimensions



Order No

- GYBT2-M8-NA
- GYBT2-M8-NB
- GYBT2-M8-PA
- GYBT2-M8-PB
- GYBT2-M8-DA
- GYBT2-M8-DB

characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC, DC NO, DC NC
Installation method	Flush mounting
Rated operating distance Sn	2mm
Reliable operating range distance Sa	0...1.6mm
Standard detection target	8*8*1t(Q253A)

Rated grade

Rated voltage UB	10...30VDC
Switch frequency f	1.5KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	DC three-wire <2V, DC two-wire <3V
Working current I _L	<100mA

Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

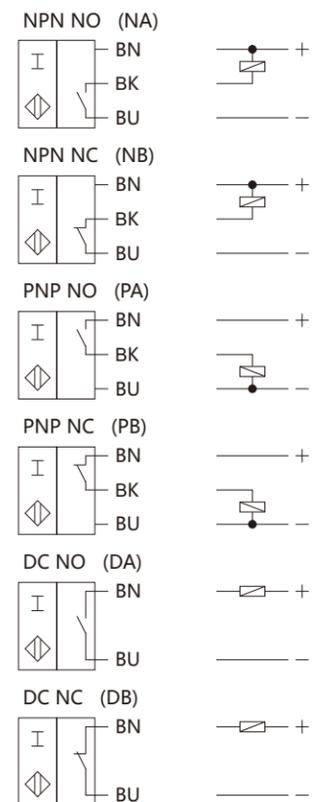
Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10~55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	
Standards compliant	IEC/EN 60947-5-2:2004

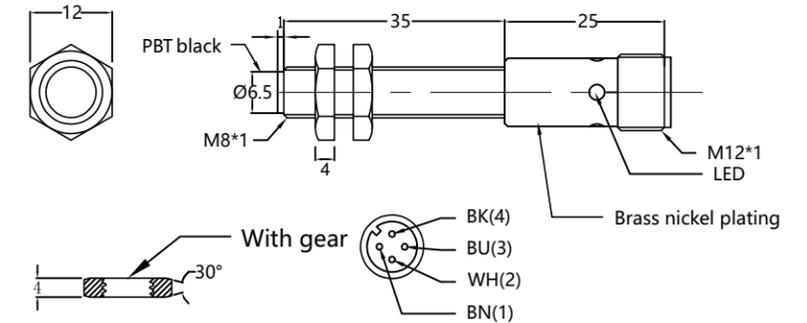
Wiring form



Accessories



Dimensions



Order No

- GYBT2-M8-NAH
- GYBT2-M8-NBH
- GYBT2-M8-PAH
- GYBT2-M8-PBH
- GYBT2-M8-DAH
- GYBT2-M8-DBH

characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC, DC NO, DC NC
Installation method	Flush mounting
Rated operating distance Sn	2mm
Reliable operating range distance Sa	0...1.6mm
Standard detection target	8*8*1t(Q253A)

Rated grade

Rated voltage UB	10...30VDC
Switch frequency f	1.5KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	DC three-wire <2V, DC two-wire <3V
Working current I _L	<100mA

Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

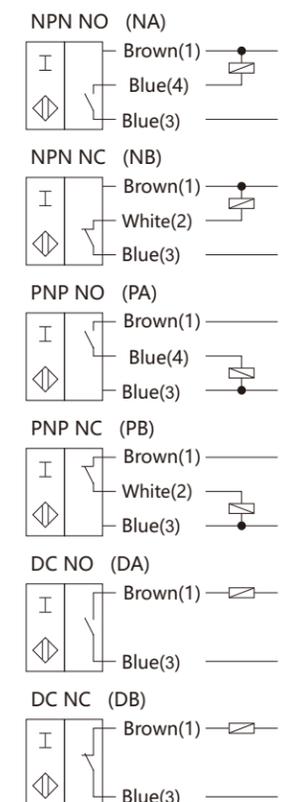
Mechanical characteristics

Wiring form	Connector
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10~55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	
Standards compliant	IEC/EN 60947-5-2:2004

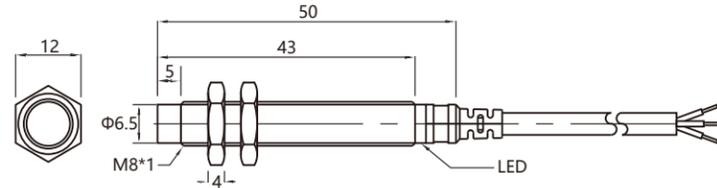
Wiring form



Accessories



Dimensions



Order No

- GYBG4-M8-NA
- GYBG4-M8-NB
- GYBG4-M8-PA
- GYBG4-M8-PB
- GYBG4-M8-DA
- GYBG4-M8-DB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC, DC NO, DC NC
Installation method	Non-flush mounting
Rated operating distance Sn	4mm
Reliable operating range distance Sa	0...3.2mm
Standard detection target	12*12*1t(Q253A)

Rated grade

Rated voltage UB	10...30VDC
Switch frequency f	1KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current Io	<15mA
Leakage current Ir	<100uA
Voltage drop Ud	DC three-wire <2V, DC two-wire <3V
Working current IL	<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

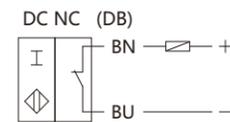
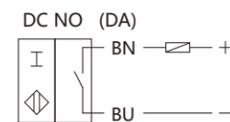
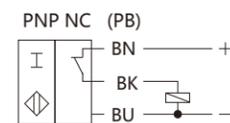
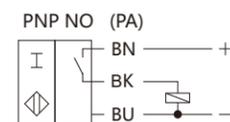
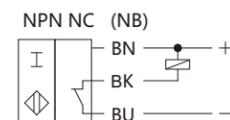
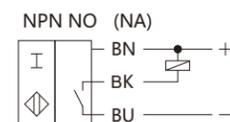
Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

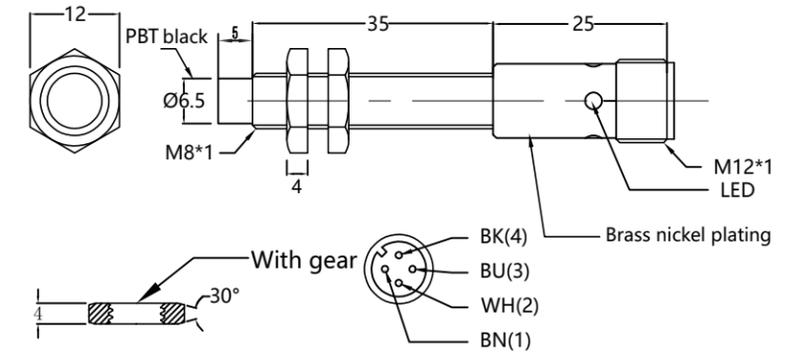
Wiring form



Accessories



Dimensions



Order No

- GYBG4-M8-NAH
- GYBG4-M8-NBH
- GYBG4-M8-PAH
- GYBG4-M8-PBH
- GYBG4-M8-DAH
- GYBG4-M8-DBH

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC, DC NO, DC NC
Installation method	Non-flush mounting
Rated operating distance Sn	4mm
Reliable operating range distance Sa	0...3.2mm
Standard detection target	12*12*1t(Q253A)

Rated grade

Rated voltage UB	10...30VDC
Switch frequency f	1KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current Io	<15mA
Leakage current Ir	<100uA
Voltage drop Ud	DC three-wire <2V, DC two-wire <3V
Working current IL	<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

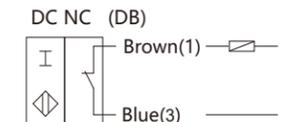
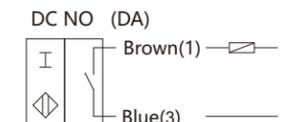
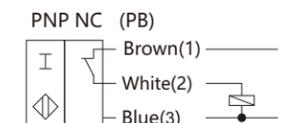
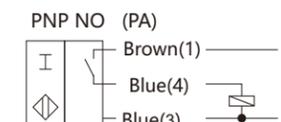
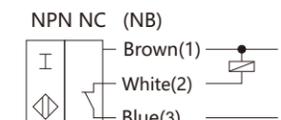
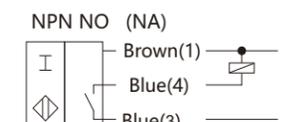
Mechanical characteristics

Wiring form	Connector
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

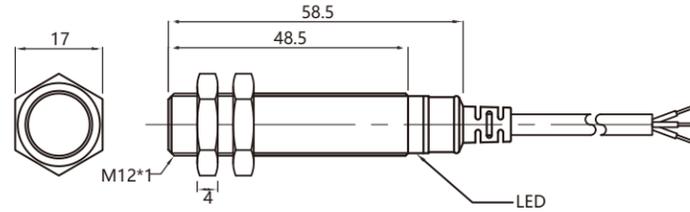
Wiring form



Accessories



Dimensions



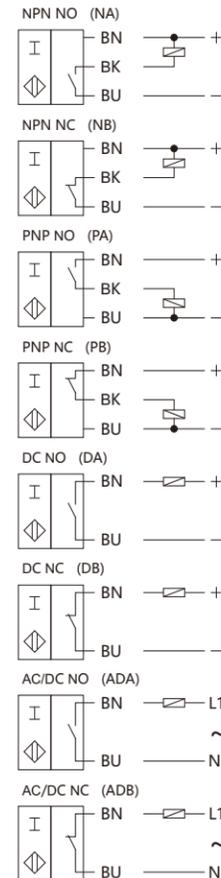
Order No

- GYBT4-M12-NA
- GYBT4-M12-NB
- GYBT4-M12-PA
- GYBT4-M12-PB
- GYBT4-M12-DA
- GYBT4-M12-DB
- GYBT4-M12-ADA
- GYBT4-M12-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN , PNP , D, AD
Installation method	Flush mounting
Rated operating distance Sn	4mm
Reliable operating range distance Sa	0...3.2mm
Standard detection target	12*12*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:1KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V , AD:<10V
Working current I _L	NPN/PNP:<200mA , D:<100mA , AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

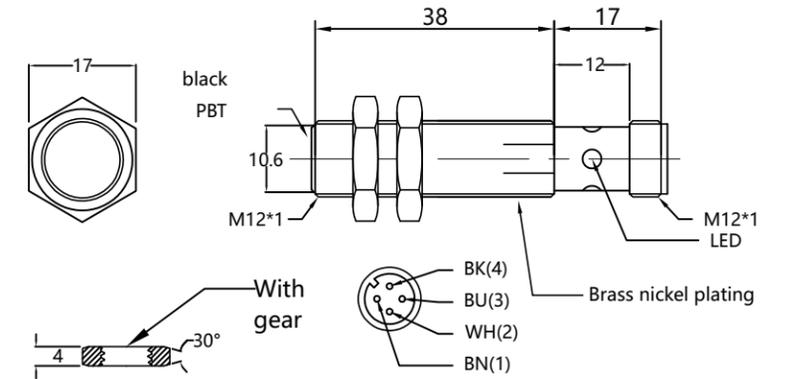
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



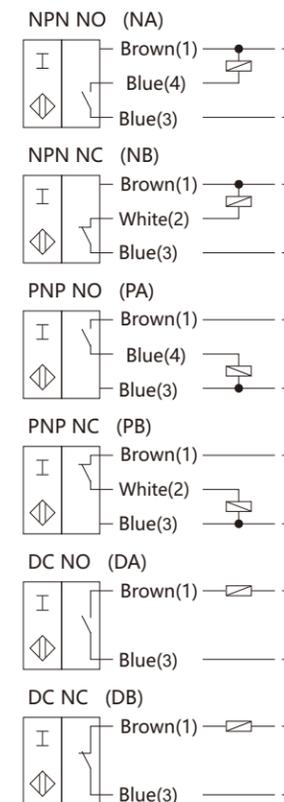
Order No

- GYBT4-M12-NAH
- GYBT4-M12-NBH
- GYBT4-M12-PAH
- GYBT4-M12-PBH
- GYBT4-M12-DAH
- GYBT4-M12-DBH

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN , PNP , D
Installation method	Flush mounting
Rated operating distance Sn	4mm
Reliable operating range distance Sa	0...3.2mm
Standard detection target	12*12*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC
Switch frequency f	NPN/PNP/D:1KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V
Working current I _L	NPN/PNP:<200mA , D:<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

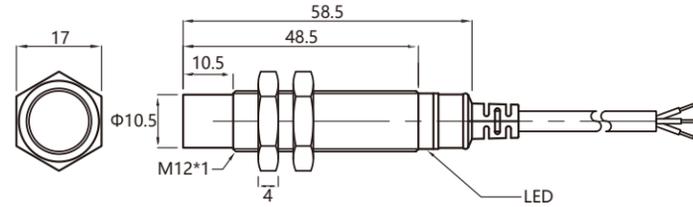
Wiring form	Connector
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



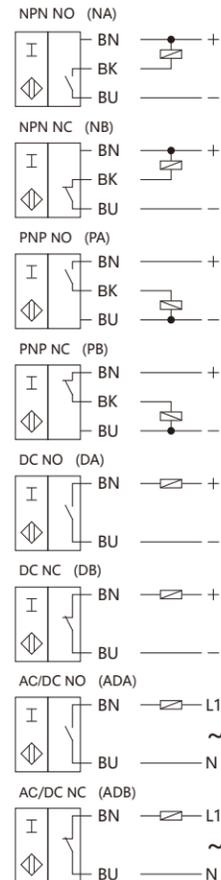
Order No

- GYBG8-M12-NA
- GYBG8-M12-NB
- GYBG8-M12-PA
- GYBG8-M12-PB
- GYBG8-M12-DA
- GYBG8-M12-DB
- GYBG8-M12-ADA
- GYBG8-M12-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN、PNP、D、AD
Installation method	Non-flush mounting
Rated operating distance S_n	8mm
Reliable operating range distance S_a	0...6.4mm
Standard detection target	24*24*1t(Q253A)

Rated grade

Rated voltage U_B	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.8KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<15mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP/D:<2.5V, D:<3.5V, AD:<10V
Working current I_L	NPN/PNP:<200mA, D:<100mA, AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

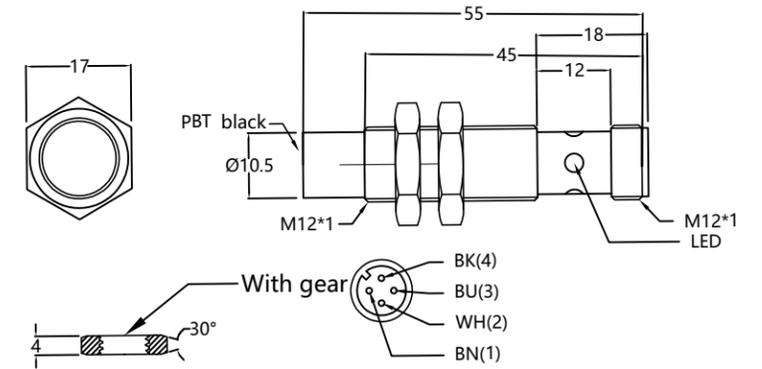
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



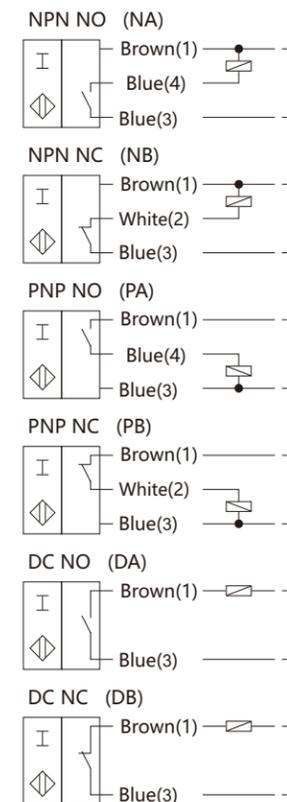
Order No

- GYBG8-M12-NAH
- GYBG8-M12-NBH
- GYBG8-M12-PAH
- GYBG8-M12-PBH
- GYBG8-M12-DAH
- GYBG8-M12-DBH

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN、PNP、D
Installation method	Non-flush mounting
Rated operating distance S_n	8mm
Reliable operating range distance S_a	0...6.4mm
Standard detection target	24*24*1t(Q253A)

Rated grade

Rated voltage U_B	NPN/PNP/D :DC:10...30VDC
Switch frequency f	NPN/PNP/D:0.8KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<15mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP/D:<2.5V, D:<3.5V
Working current I_L	NPN/PNP:<200mA, D:<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

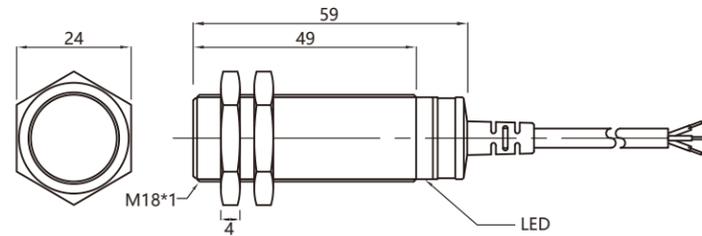
Wiring form	Connector
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



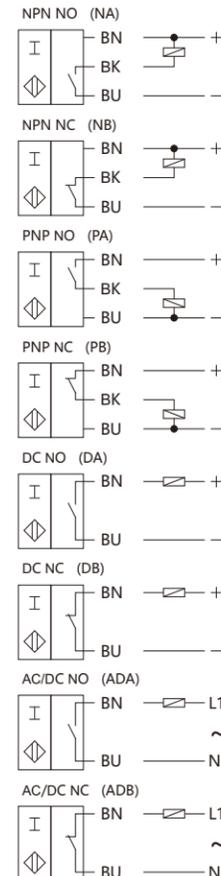
Order No

- GYBT8-M18-NA
- GYBT8-M18-NB
- GYBT8-M18-PA
- GYBT8-M18-PB
- GYBT8-M18-DA
- GYBT8-M18-DB
- GYBT8-M18-ADA
- GYBT8-M18-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN、PNP、D、AD
Installation method	Flush mounting
Rated operating distance S_n	8mm
Reliable operating range distance S_a	0...6.4mm
Standard detection target	24*24*1t(Q253A)

Rated grade

Rated voltage U_B	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.5KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<15mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP/D:<2.5V, D:<3.5V, AD:<10V
Working current I_L	NPN/PNP:<200mA, D:<100mA, AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

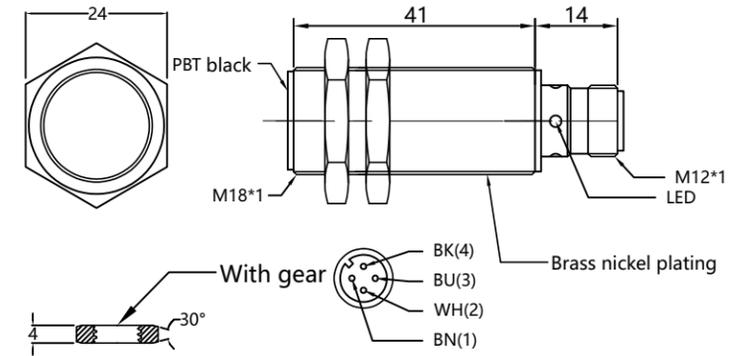
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



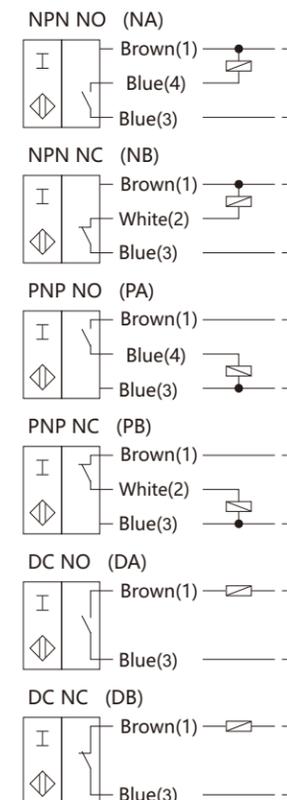
Order No

- GYBT8-M18-NAH
- GYBT8-M18-NBH
- GYBT8-M18-PAH
- GYBT8-M18-PBH
- GYBT8-M18-DAH
- GYBT8-M18-DBH

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN、PNP、D
Installation method	Flush mounting
Rated operating distance S_n	8mm
Reliable operating range distance S_a	0...6.4mm
Standard detection target	24*24*1t(Q253A)

Rated grade

Rated voltage U_B	NPN/PNP/D :DC:10...30VDC
Switch frequency f	NPN/PNP/D:0.5KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<15mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP/D:<2.5V, D:<3.5V
Working current I_L	NPN/PNP:<200mA, D:<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

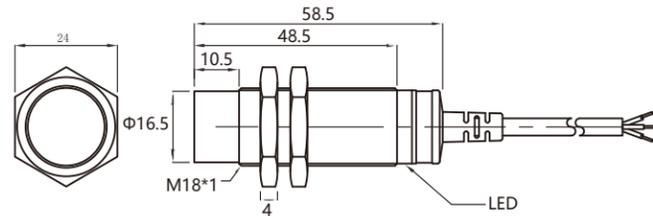
Wiring form	Connector
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



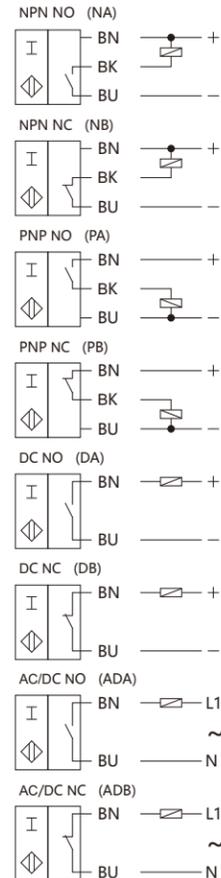
Order No

- GYBG16-M18-NA
- GYBG16-M18-NB
- GYBG16-M18-PA
- GYBG16-M18-PB
- GYBG16-M18-DA
- GYBG16-M18-DB
- GYBG16-M18-ADA
- GYBG16-M18-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN、PNP、D、AD
Installation method	Non-flush mounting
Rated operating distance Sn	16mm
Reliable operating range distance Sa	0...12.6mm
Standard detection target	48*48*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.4KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V , AD:<10V
Working current I _L	NPN/PNP:<200mA , D:<100mA , AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

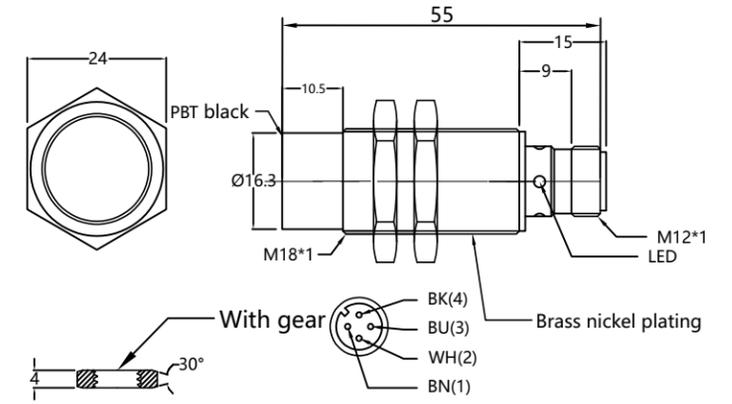
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



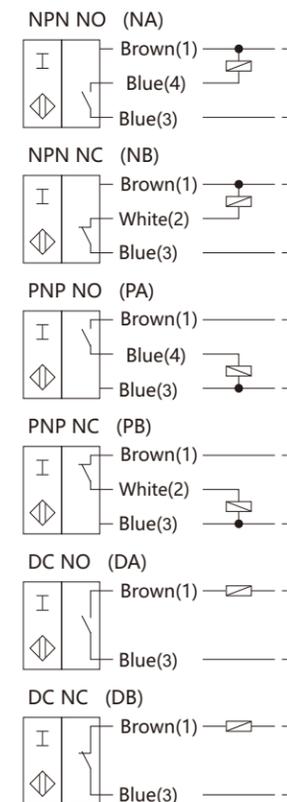
Order No

- GYBG16-M18-NAH
- GYBG16-M18-NBH
- GYBG16-M18-PAH
- GYBG16-M18-PBH
- GYBG16-M18-DAH
- GYBG16-M18-DBH

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN、PNP、D
Installation method	Non-flush mounting
Rated operating distance Sn	16mm
Reliable operating range distance Sa	0...12.6mm
Standard detection target	48*48*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC
Switch frequency f	NPN/PNP/D:0.4KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V
Working current I _L	NPN/PNP:<200mA , D:<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

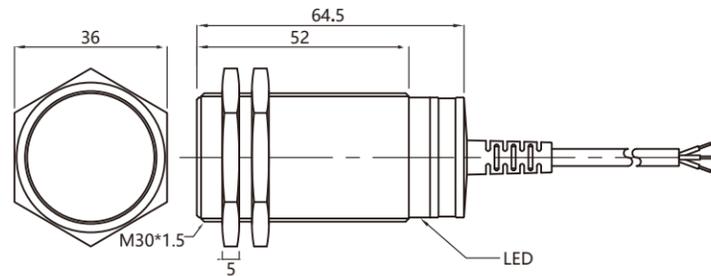
Wiring form	Connector
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



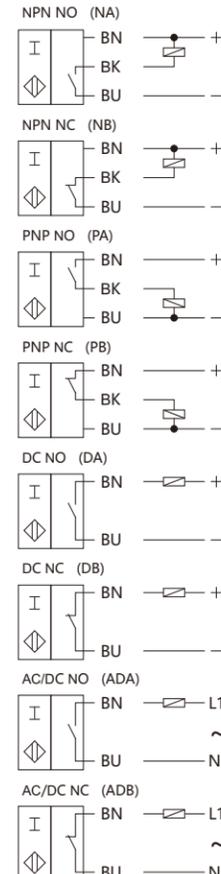
Order No

- GYBT15-M30-NA
- GYBT15-M30-NB
- GYBT15-M30-PA
- GYBT15-M30-PB
- GYBT15-M30-DA
- GYBT15-M30-DB
- GYBT15-M30-ADA
- GYBT15-M30-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN , PNP , D, AD
Installation method	Flush mounting
Rated operating distance Sn	15mm
Reliable operating range distance Sa	0...12mm
Standard detection target	45*45*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.25KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V , AD:<10V
Working current I _L	NPN/PNP:<200mA , D:<100mA , AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

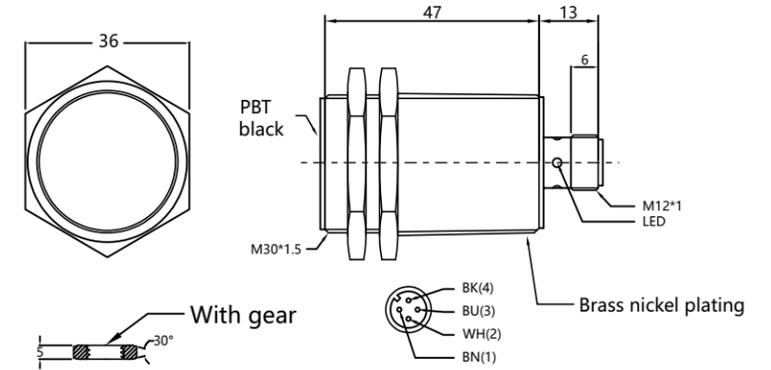
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



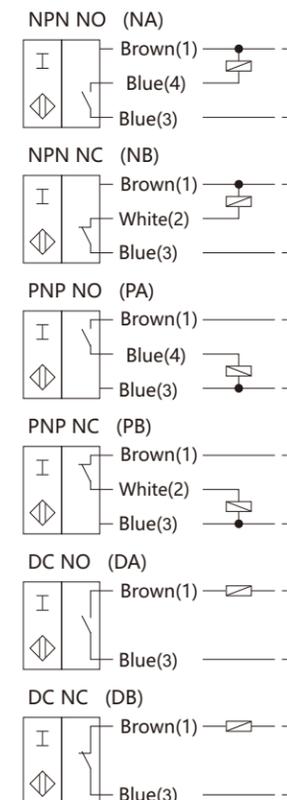
Order No

- GYBT15-M30-NAH
- GYBT15-M30-NBH
- GYBT15-M30-PAH
- GYBT15-M30-PBH
- GYBT15-M30-DAH
- GYBT15-M30-DBH

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN , PNP , D
Installation method	Flush mounting
Rated operating distance Sn	15mm
Reliable operating range distance Sa	0...12mm
Standard detection target	45*45*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC
Switch frequency f	NPN/PNP/D:0.25KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V
Working current I _L	NPN/PNP:<200mA , D:<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

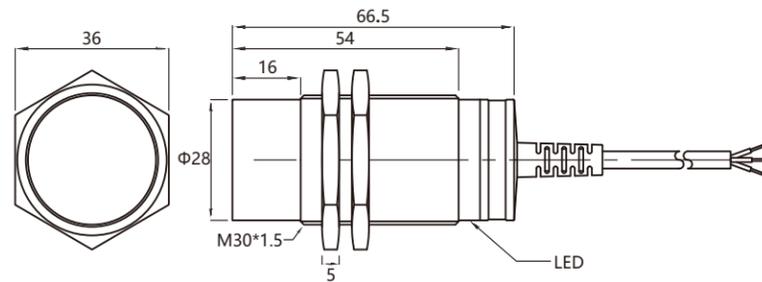
Wiring form	Connector
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



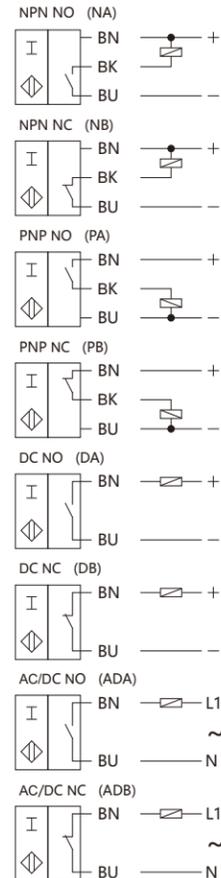
Order No

- GYBG30-M30-NA
- GYBG30-M30-NB
- GYBG30-M30-PA
- GYBG30-M30-PB
- GYBG30-M30-DA
- GYBG30-M30-DB
- GYBG30-M30-ADA
- GYBG30-M30-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions	
Output type	NPN , PNP , D, AD
Installation method	Non-flush mounting
Rated operating distance S _n	30mm
Reliable operating range distance S _a	0...26mm
Standard detection target	88*88*1t(Q253A)

Rated grade	
Rated voltage U _B	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.1KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V , AD:<10V
Working current I _L	NPN/PNP:<200mA , D:<100mA , AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

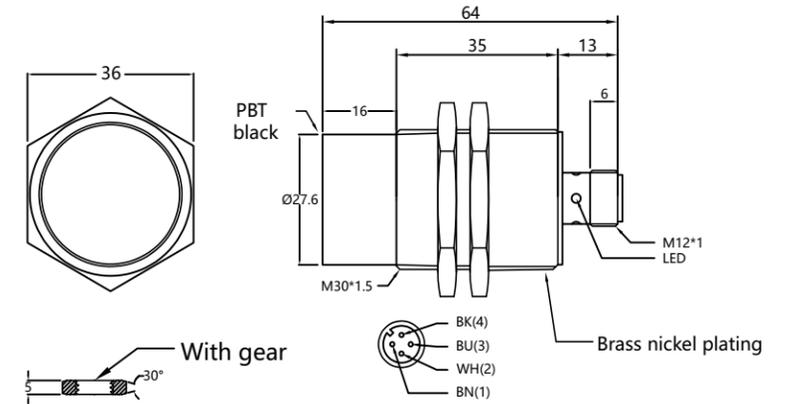
Surroundings	
Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics	
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards	
Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



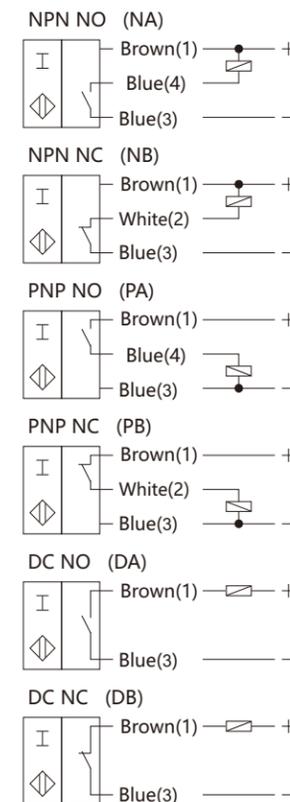
Order No

- GYBG30-M30-NAH
- GYBG30-M30-NBH
- GYBG30-M30-PAH
- GYBG30-M30-PBH
- GYBG30-M30-DAH
- GYBG30-M30-DBH

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions	
Output type	NPN , PNP , D
Installation method	Non-flush mounting
Rated operating distance S _n	30mm
Reliable operating range distance S _a	0...26mm
Standard detection target	88*88*1t(Q253A)

Rated grade	
Rated voltage U _B	NPN/PNP/D :DC:10...30VDC
Switch frequency f	NPN/PNP/D:0.1KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V
Working current I _L	NPN/PNP:<200mA , D:<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

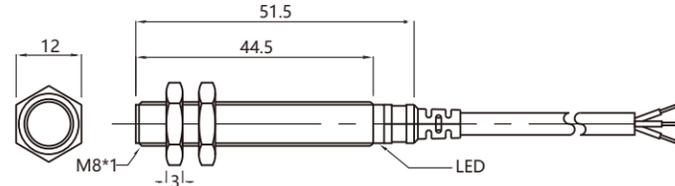
Surroundings	
Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics	
Wiring form	Connector
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards	
Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



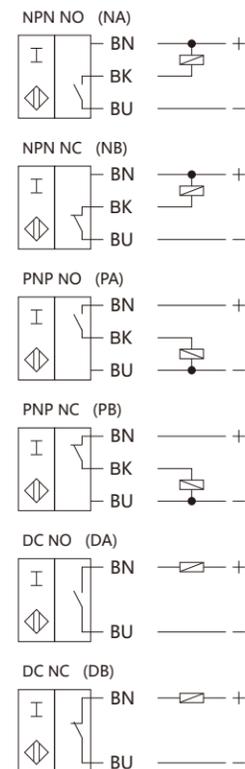
Order No

- GYAT1.5-M8-NA
- GYAT1.5-M8-NB
- GYAT1.5-M8-PA
- GYAT1.5-M8-PB
- GYAT1.5-M8-DA
- GYAT1.5-M8-DB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



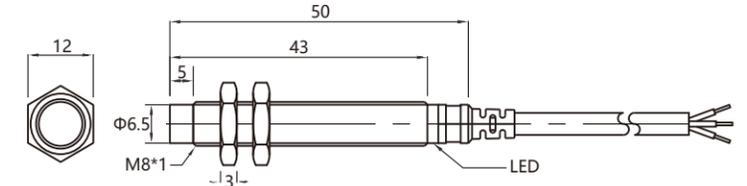
Accessories

Technical parameters

General instructions	
Output type	NPN , PNP , D、AD
Installation method	Flush mounting
Rated operating distance Sn	1.5mm
Reliable operating range distance Sa	0...1.2mm
Standard detection target	8*8*1t(Q253A)
Rated grade	
Rated voltage UB	10...30VDC
Switch frequency f	2KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current Io	<15mA
Leakage current Ir	<100uA
Voltage drop Ud	DC three-wire <2V, DC two-wire <3V
Working current IL	<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator
Surroundings	
Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%
Mechanical characteristics	
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H
Certifications and Standards	
Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



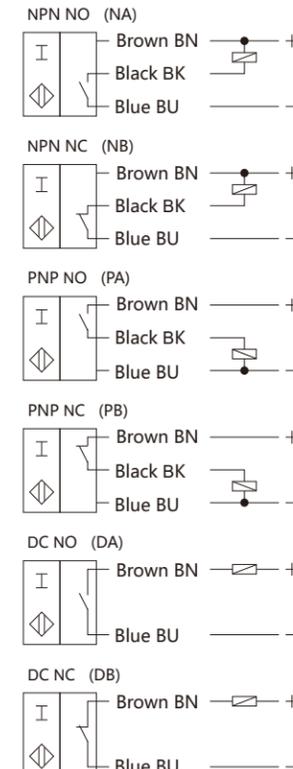
Order No

- GYAG3-M8-NA
- GYAG3-M8-NB
- GYAG3-M8-PA
- GYAG3-M8-PB
- GYAG3-M8-DA
- GYAG3-M8-DB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



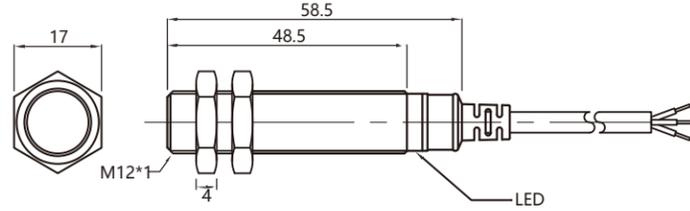
Accessories

Technical parameters

General instructions	
Output type	NPN NO、NPN NC、PNP NO、PNP NC、DC NO、DC NC
Installation method	Non-flush mounting
Rated operating distance Sn	3mm
Reliable operating range distance Sa	0...2.6mm
Standard detection target	8*8*1t(Q253A)
Rated grade	
Rated voltage UB	10...30VDC
Switch frequency f	1KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current Io	<15mA
Leakage current Ir	<100uA
Voltage drop Ud	DC three-wire <2V, DC two-wire <3V
Working current IL	<100mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator
Surroundings	
Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%
Mechanical characteristics	
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H
Certifications and Standards	
Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



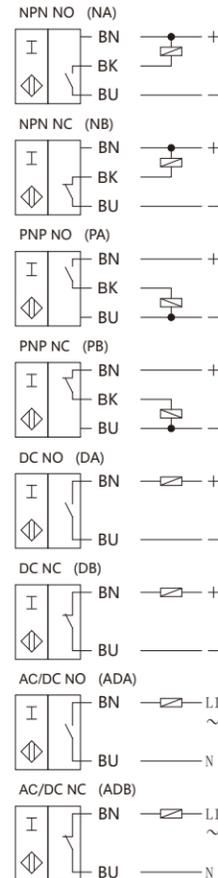
Order No

- GYAT3-M12-NA
- GYAT3-M12-NB
- GYAT3-M12-PA
- GYAT3-M12-PB
- GYAT3-M12-DA
- GYAT3-M12-DB
- GYAT3-M12-ADA
- GYAT3-M12-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN , PNP , D, AD
Installation method	Flush mounting
Rated operating distance Sn	30mm
Reliable operating range distance Sa	0...2.6mm
Standard detection target	12*12*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:1.5KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V , AD:<10V
Working current I _L	NPN/PNP:<200mA , D:<100mA , AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

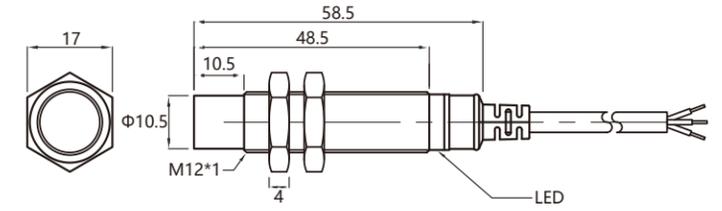
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



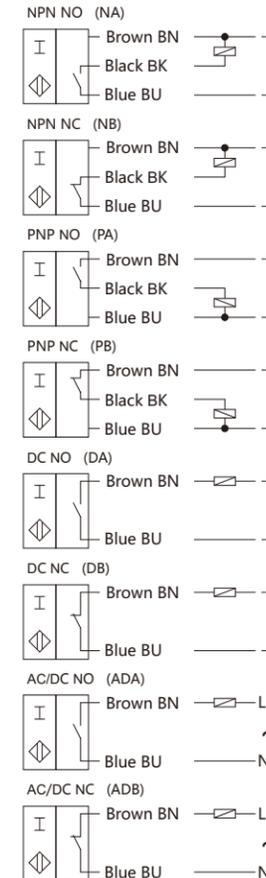
Order No

- GYAG6-M12-NA
- GYAG6-M12-NB
- GYAG6-M12-PA
- GYAG6-M12-PB
- GYAG6-M12-DA
- GYAG6-M12-DB
- GYAG6-M12-ADA
- GYAG6-M12-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN , PNP , D, AD
Installation method	Non-flush mounting
Rated operating distance Sn	6mm
Reliable operating range distance Sa	0...5.4mm
Standard detection target	12*12*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.8KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V , AD:<10V
Working current I _L	NPN/PNP:<200mA , D:<100mA , AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

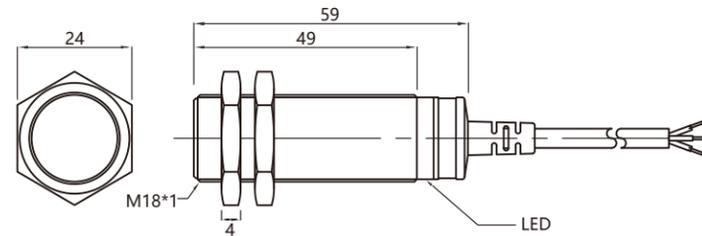
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



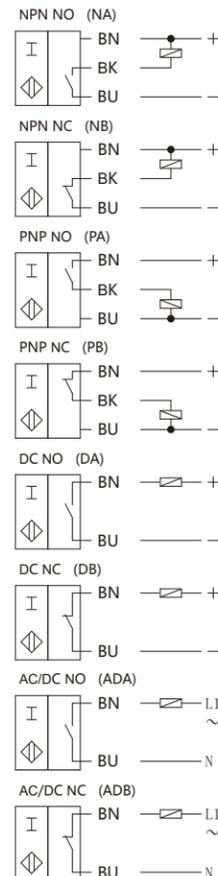
Order No

- GYAT6-M18-NA
- GYAT6-M18-NB
- GYAT6-M18-PA
- GYAT6-M18-PB
- GYAT6-M18-DA
- GYAT6-M18-DB
- GYAT6-M18-ADA
- GYAT6-M18-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN , PNP , D, AD
Installation method	Flush mounting
Rated operating distance Sn	6mm
Reliable operating range distance Sa	0...5.4mm
Standard detection target	18*18*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:1KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V , AD:<10V
Working current I _L	NPN/PNP:<200mA , D:<100mA , AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

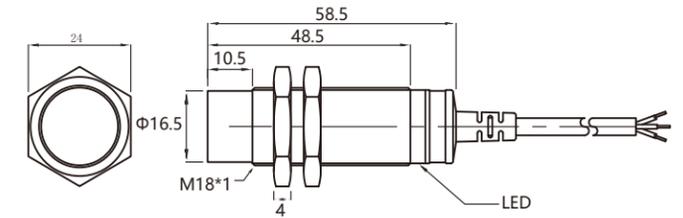
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



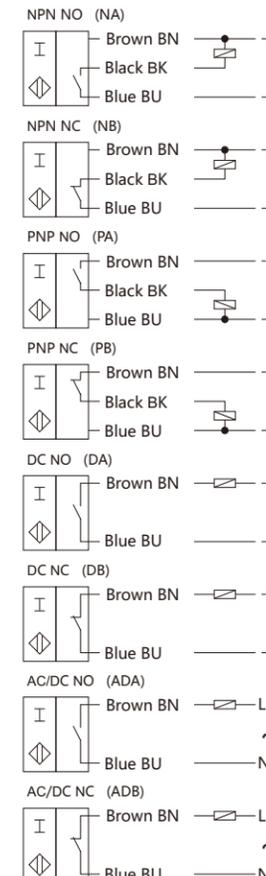
Order No

- GYAG12-M18-NA
- GYAG12-M18-NB
- GYAG12-M18-PA
- GYAG12-M18-PB
- GYAG12-M18-DA
- GYAG12-M18-DB
- GYAG12-M18-ADA
- GYAG12-M18-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN , PNP , D, AD
Installation method	Non-flush mounting
Rated operating distance Sn	12mm
Reliable operating range distance Sa	0...10.8mm
Standard detection target	24*24*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC , AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.4KHz , AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I _o	<15mA
Leakage current I _r	<100uA
Voltage drop U _d	NPN/PNP/D:<2.5V , D:<3.5V , AD:<10V
Working current I _L	NPN/PNP:<200mA , D:<100mA , AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

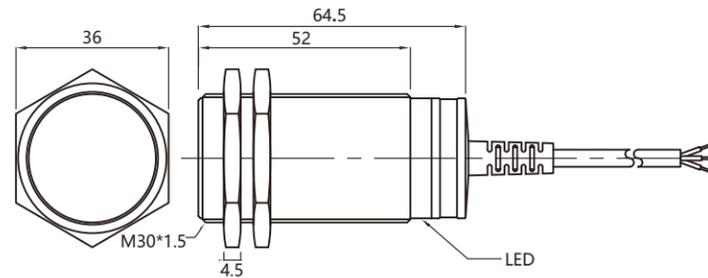
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



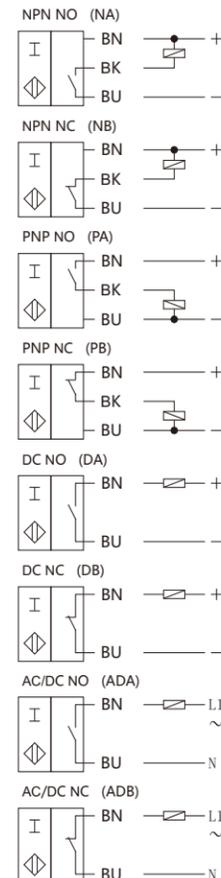
Order No

- GYAT12-M30-NA
- GYAT12-M30-NB
- GYAT12-M30-PA
- GYAT12-M30-PB
- GYAT12-M30-DA
- GYAT12-M30-DB
- GYAT12-M30-ADA
- GYAT12-M30-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN, PNP, D, AD
Installation method	Flush mounting
Rated operating distance Sn	12mm
Reliable operating range distance Sa	0...10.8mm
Standard detection target	30*30*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC, AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.25KHz, AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current Io	<15mA
Leakage current Ir	<100uA
Voltage drop Ud	NPN/PNP/D:<2.5V, D:<3.5V, AD:<10V
Working current IL	NPN/PNP:<200mA, D:<100mA, AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

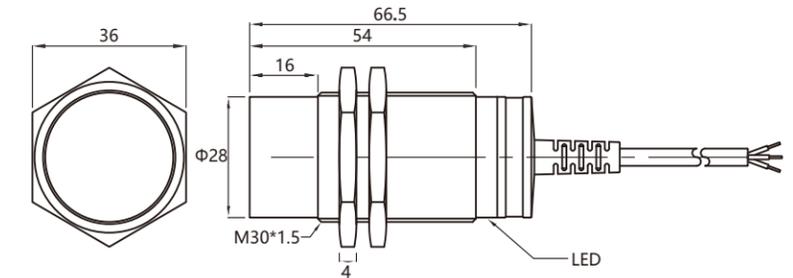
Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



Dimensions



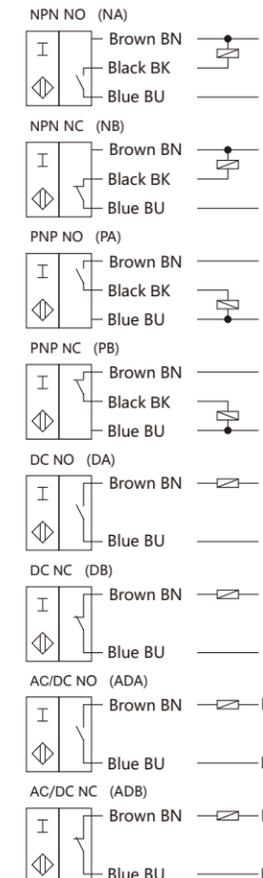
Order No

- GYAG20-M30-NA
- GYAG20-M30-NB
- GYAG20-M30-PA
- GYAG20-M30-PB
- GYAG20-M30-DA
- GYAG20-M30-DB
- GYAG20-M30-ADA
- GYAG20-M30-ADB

Characteristic

- Special optical design on the back cover of the product, 360° visible indicator light.
- Dedicated IC, stable ultra-long detection distance, strong anti-interference.
- Using durable, oil-resistant wire
- Detection surface made from oil-resistant and corrosion-resistant materials, with excellent environmental performance

Wiring form



Technical parameters

General instructions

Output type	NPN, PNP, D, AD
Installation method	Non-flush mounting
Rated operating distance Sn	20mm
Reliable operating range distance Sa	0...18mm
Standard detection target	45*45*1t(Q253A)

Rated grade

Rated voltage UB	NPN/PNP/D :DC:10...30VDC, AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.1KHz, AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current Io	<15mA
Leakage current Ir	<100uA
Voltage drop Ud	NPN/PNP/D:<2.5V, D:<3.5V, AD:<10V
Working current IL	NPN/PNP:<200mA, D:<100mA, AD:<300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

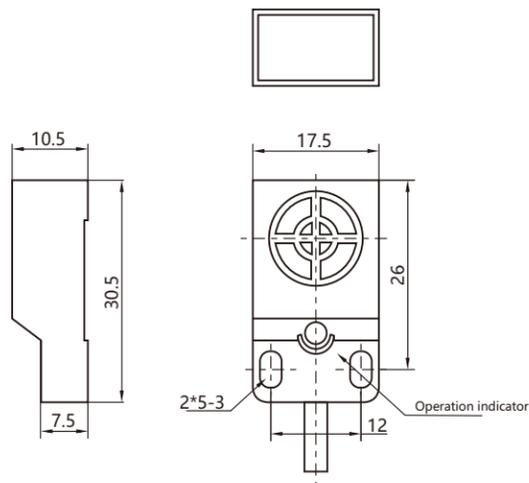
Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	Brass nickel plating
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



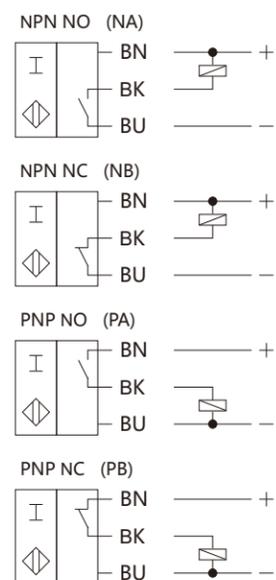
Order No

- GYAG5-Q10-NA
- GYAG5-Q10-NB
- GYAG5-Q10-PA
- GYAG5-Q10-PB

Characteristic

- Complete range of models, with short circuit protection and reverse polarity protection
- Dedicated IC, stable detection distance, multiple product specifications
- Using durable, oil-resistant wire

Wiring form



Accessories

Screw*2

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC
Installation method	Non-flush mounting
Rated operating distance S_n	5mm
Reliable operating range distance S_a	0...4mm
Standard detection target	17*17*1t(Q253A)

Rated grade

Rated voltage U_B	10...30VDC
Switch frequency f	0.6KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<10mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP<2.5V
Working current I_L	<200mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

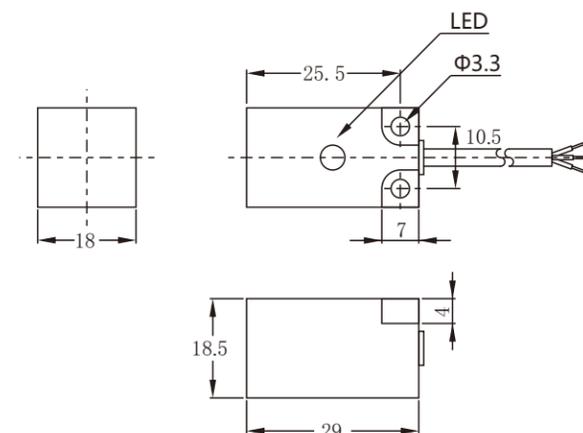
Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	PBT
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



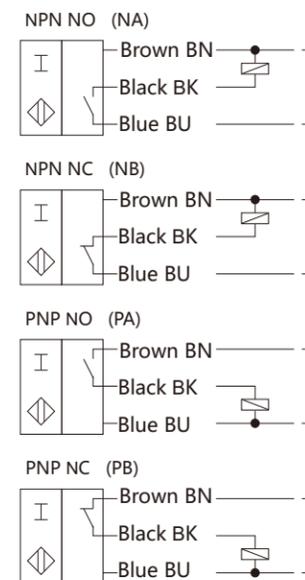
Order No

- GYAG5-Q18-NA
- GYAG5-Q18-NB
- GYAG5-Q18-PA
- GYAG5-Q18-PB

Characteristic

- Complete range of models, with short circuit protection and reverse polarity protection
- Dedicated IC, stable detection distance, multiple product specifications
- Using durable, oil-resistant wire

Wiring form



Accessories

Screw*2

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC
Installation method	Non-flush mounting
Rated operating distance S_n	5mm
Reliable operating range distance S_a	0...4mm
Standard detection target	17*17*1t(Q253A)

Rated grade

Rated voltage U_B	10...30VDC
Switch frequency f	0.6KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<10mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP<2.5V
Working current I_L	<200mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

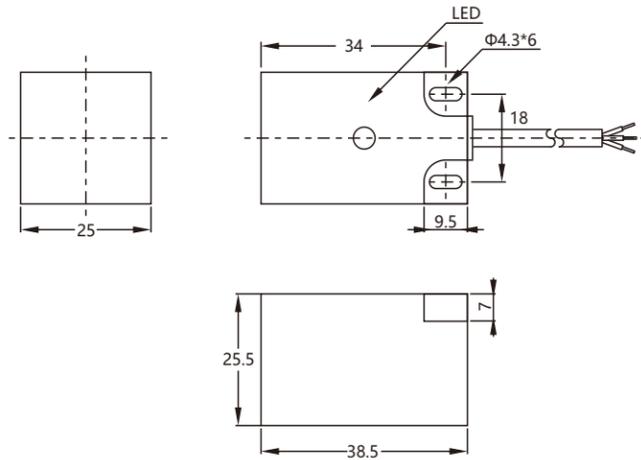
Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	PBT
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



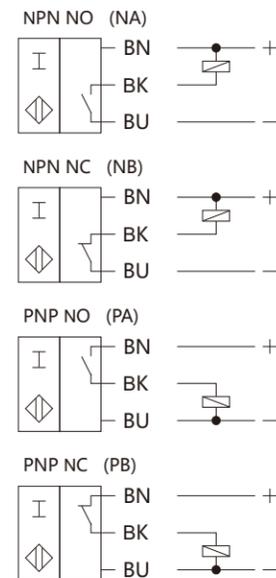
Order No

- GYAG10-Q25-NA
- GYAG10-Q25-NB
- GYAG10-Q25-PA
- GYAG10-Q25-PB

Characteristic

- Complete range of models, with short circuit protection and reverse polarity protection
- Dedicated IC, stable detection distance, multiple product specifications
- Using durable, oil-resistant wire

Wiring form



Accessories

Screw*2

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC
Installation method	Non-flush mounting
Rated operating distance S_n	10mm
Reliable operating range distance S_a	0...8mm
Standard detection target	30*30*1t(Q253A)

Rated grade

Rated voltage U_B	10...30VDC
Switch frequency f	0.3KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<10mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP <2.5V
Working current I_L	<200mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

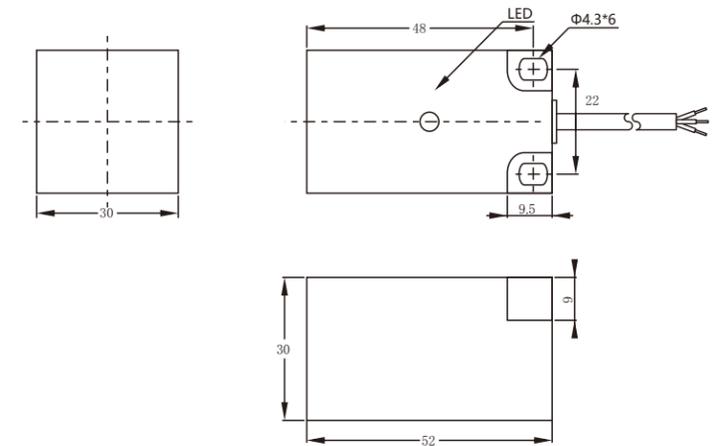
Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	PBT
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



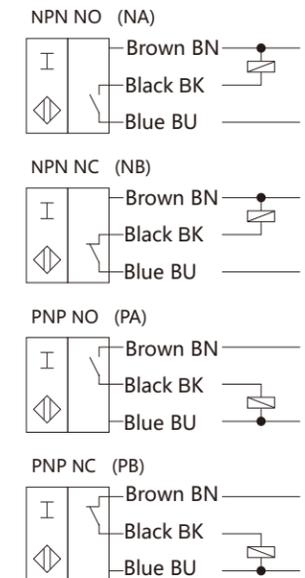
Order No

- GYAG15-Q30-NA
- GYAG15-Q30-NB
- GYAG15-Q30-PA
- GYAG15-Q30-PB

Characteristic

- Complete range of models, with short circuit protection and reverse polarity protection
- Dedicated IC, stable detection distance, multiple product specifications
- Using durable, oil-resistant wire

Wiring form



Accessories

Screw*2

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC
Installation method	Non-flush mounting
Rated operating distance S_n	15mm
Reliable operating range distance S_a	0...12mm
Standard detection target	45*45*1t(Q253A)

Rated grade

Rated voltage U_B	10...30VDC
Switch frequency f	0.3KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<10mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP <2.5V
Working current I_L	<200mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	PBT
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



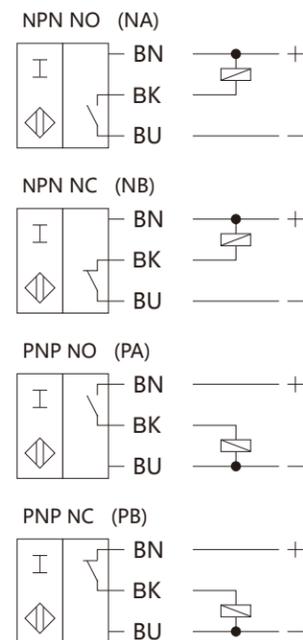
Order No

- GYAG20-Q40-NA
- GYAG20-Q40-NB
- GYAG20-Q40-PA
- GYAG20-Q40-PB

Characteristic

- Complete range of models, with short circuit protection and reverse polarity protection
- Dedicated IC, stable detection distance, multiple product specifications
- Using durable, oil-resistant wire

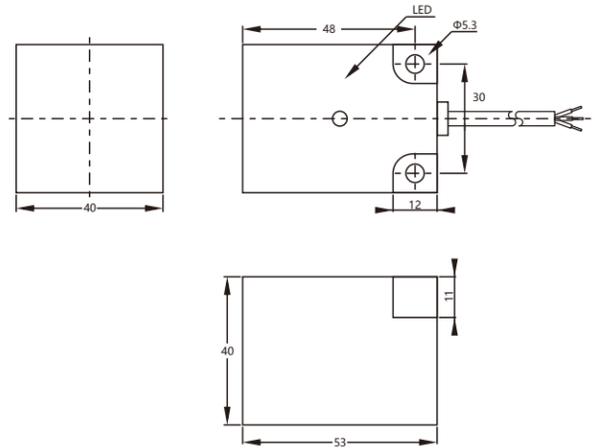
Wiring form



Accessories

Screw*2

Dimensions



Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC
Installation method	Non-flush mounting
Rated operating distance S_n	10mm
Reliable operating range distance S_a	0...17mm
Standard detection target	60*60*1t(Q253A)

Rated grade

Rated voltage U_B	10...30VDC
Switch frequency f	0.1KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<10mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP <2.5V
Working current I_L	<200mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	PBT
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004



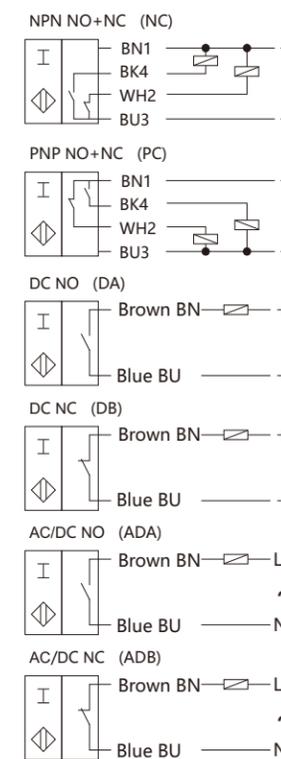
Order No

- GYBG50-Q80-NC
- GYBG50-Q80-PC
- GYBG50-Q80-DA
- GYBG50-Q80-DB
- GYBG50-Q80-ADA
- GYBG50-Q80-ADB

Characteristic

- Complete range of models, with short circuit protection and reverse polarity protection
- Dedicated IC, stable detection distance, multiple product specifications
- Using durable, oil-resistant wire

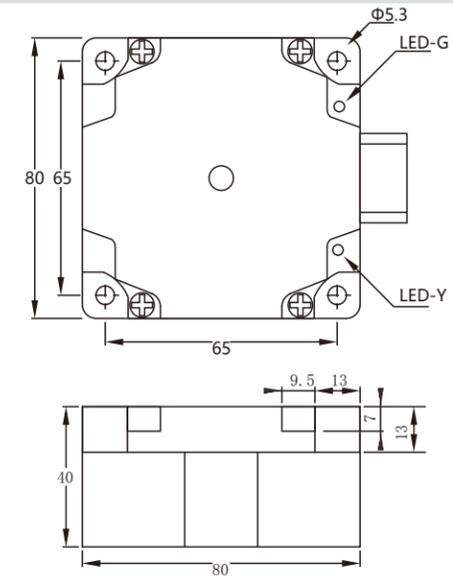
Wiring form



Accessories

Screw*4

Dimensions



Technical parameters

General instructions

Output type	NPN, PNP, D, AD
Installation method	Non-flush mounting
Rated operating distance S_n	50mm
Reliable operating range distance S_a	0...40mm
Standard detection target	120*120*1t(Q253A)

Rated grade

Rated voltage U_B	NPN/PNP/D :DC:10...30VDC, AD:AC/DC:24-250V
Switch frequency f	NPN/PNP/D:0.1KHz, AD:40Hz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<100uA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP: <200mA, D: <100mA, AD: <300mA
Working current I_L	NPN/PNP: <200mA, D: <100mA, AD: <300mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

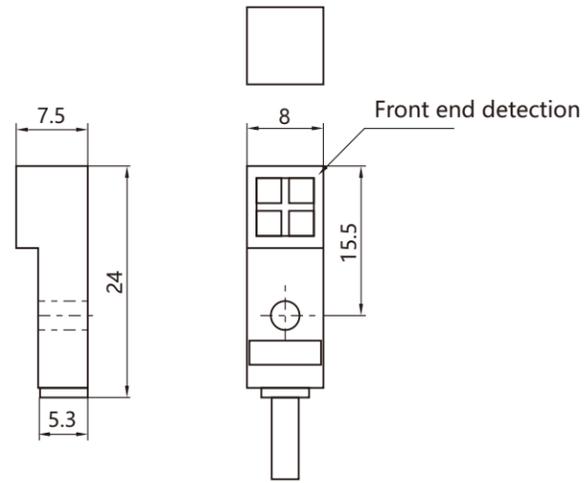
Mechanical characteristics

Wiring form	Terminals
Case material	PBT
Inductive surface	PBT
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



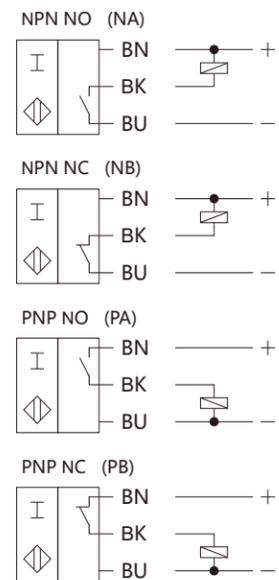
Order No

- GYAG2-Q8-NA-1
- GYAG2-Q8-NB-1
- GYAG2-Q8-PA-1
- GYAG2-Q8-PB-1

Characteristic

- Complete range of models, with short circuit protection and reverse polarity protection
- Dedicated IC, stable detection distance, multiple product specifications
- Using durable, oil-resistant wire

Wiring form



Accessories

Screw*1

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC
Installation method	Non-flush mounting
Rated operating distance S_n	2mm
Reliable operating range distance S_a	0...1.6mm
Standard detection target	12*12*1t(Q253A)

Rated grade

Rated voltage U_B	10...30VDC
Switch frequency f	1KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<10mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP<2.5V
Working current I_L	<200mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

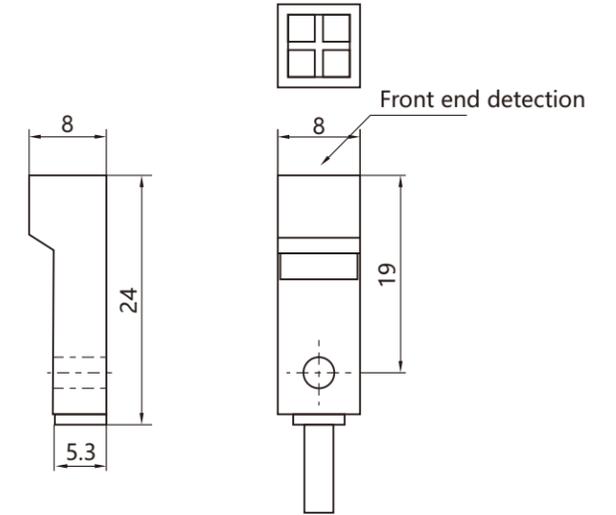
Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	PMMA
Inductive surface	PMMA
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



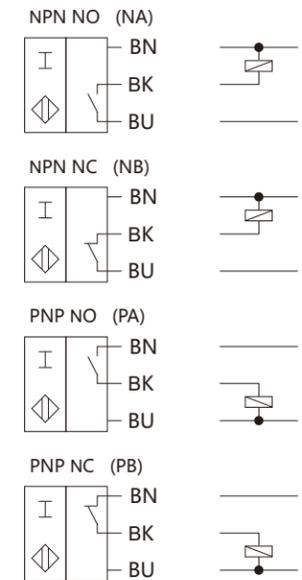
Order No

- GYAG2-Q8-NA-2
- GYAG2-Q8-NB-2
- GYAG2-Q8-PA-2
- GYAG2-Q8-PB-2

Characteristic

- Complete range of models, with short circuit protection and reverse polarity protection
- Dedicated IC, stable detection distance, multiple product specifications
- Using durable, oil-resistant wire

Wiring form



Accessories

Screw*1

Technical parameters

General instructions

Output type	NPN NO, NPN NC, PNP NO, PNP NC
Installation method	Non-flush mounting
Rated operating distance S_n	2mm
Reliable operating range distance S_a	0...1.6mm
Standard detection target	8*8*1t(Q253A)

Rated grade

Rated voltage U_B	10...30VDC
Switch frequency f	1KHz
Hysteresis range	1-15% of detection distance
Repeatability	<3% of detection distance
No-load current I_o	<10mA
Leakage current I_r	<100uA
Voltage drop U_d	NPN/PNP<2.5V
Working current I_L	<200mA
Circuit protection	Reverse polarity protection, output short circuit protection, surge absorption
Switch status indication	Red LED indicator

Surroundings

Ambient temperature	-25°C...70°C (248...358K)
Temperature effect	-25°C...70°C, detection distance within 10% at +24°C
Environment humidity	35...95%RH
Voltage influence	<3%

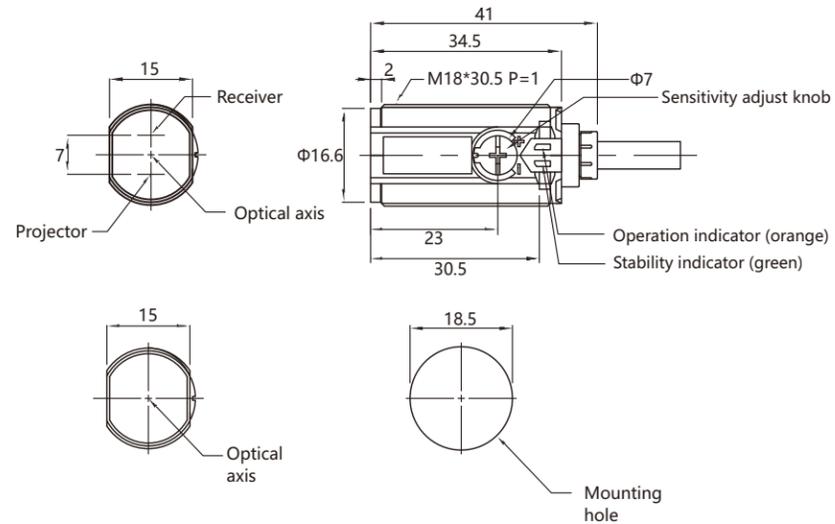
Mechanical characteristics

Wiring form	Standard wire length 2m
Case material	PMMA
Inductive surface	PMMA
Protection level	IP66
High voltage resistance	1000V AC, 50/60Hz for 1 minute between charged parts and the case
Insulation resistance	50MΩ or more (DC500V) for the charged parts and case
Vibration resistance	10 ~ 55 Hz, amplitude 1.5mm X, Y, Z each direction 2H

Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



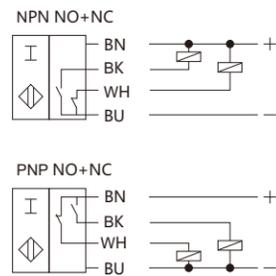
Order No

- GY - E3FA-DN11
- GY - E3FA-DN12
- GY - E3FA-DN13
- GY - E3FA-DP11
- GY - E3FA-DP12
- GY - E3FA-DP13

Characteristic

- Good quality and high reliability
- EMC protection rating
- High light resistance
- solid case

Wiring form



Technical parameters

General instructions

Output type	NPN NO+NC or PNP NO+NC
Detection method	Diffuse reflection
Rated operating distance Sn	11:100mm\12:300mm\13:1m
Standard detection target	White paper 100x100mm

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)
Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: red LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10~55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

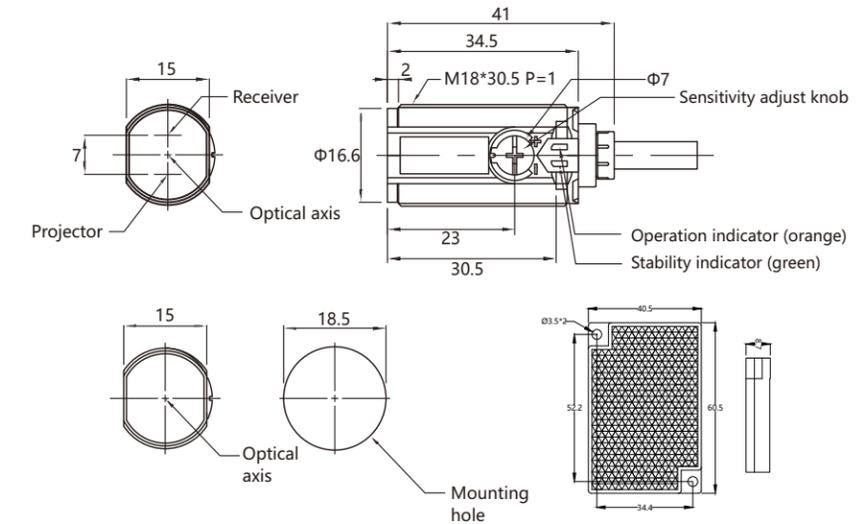
Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Nut*2

Dimensions



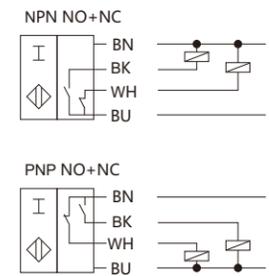
Order No

- GY - E3FA-RN11
- GY - E3FA-RP11

Characteristic

- Good quality and high reliability
- EMC protection rating
- High light resistance
- solid case

Wiring form



Technical parameters

General instructions

Output type	NPN NO+NC or PNP NO+NC
Detection method	Retro-reflective type
Rated operating distance Sn	3m
Standard detection target	Opaque body φ7mm or more

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)
Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: red LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10~55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

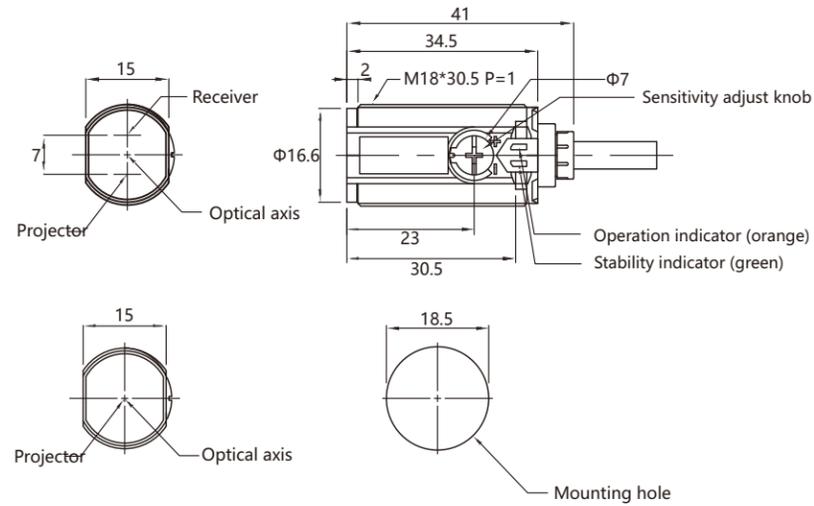
Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Nut*2

Dimensions



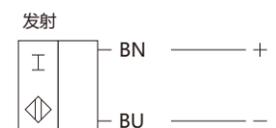
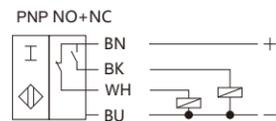
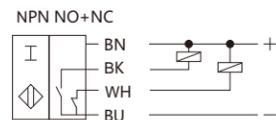
Order No

- GY - E3FA-TN11
- GY - E3FA-TN12
- GY - E3FA-TP11
- GY - E3FA-TP12

Characteristic

- Good quality and high reliability
- EMC protection rating
- High light resistance
- solid case

Wiring form



Accessories

Nut*2

Technical parameters

General instructions

Output type	NPN NO+NC or PNP NO+NC
Detection method	Through-beam
Rated operating distance Sn	12:15mm\11:20m
Standard detection target	Opaque body φ7mm or more

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)
Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: red LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

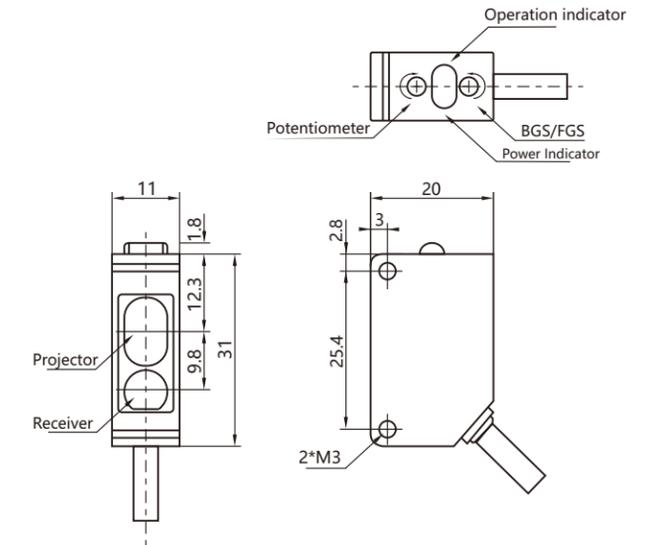
Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



Order No

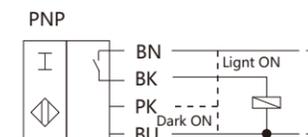
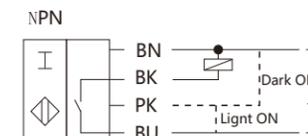
- GY-E3Z-LS61
- GY-E3Z-LS81



Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Accessories

Mounting brackets, Screw*2

Technical parameters

General instructions

Output type	NPN NO/NC or PNP NO/NC
Detection method	BGS/FGS
Rated operating distance Sn	30cm
Standard detection target	White paper 100×100mm

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)
Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: red LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

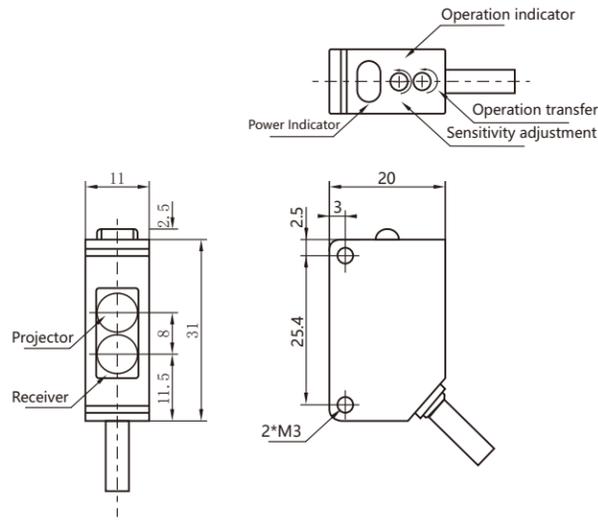
Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



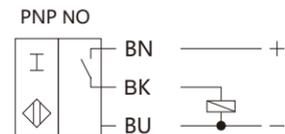
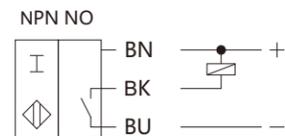
Order No

- GY-E3Z-D61
- GY-E3Z-D81
- GY-E3Z-D62
- GY-E3Z-D82

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Accessories

Mounting brackets, Screw*2

Technical parameters

General instructions

Output type	NPN,NPN ,three-wire: NO/NC
Detection method	Diffuse reflection
Rated operating distance Sn	D61,D81:10cm,D62,D82:1m
Standard detection target	White paper 100x100mm

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)

Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: orange LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

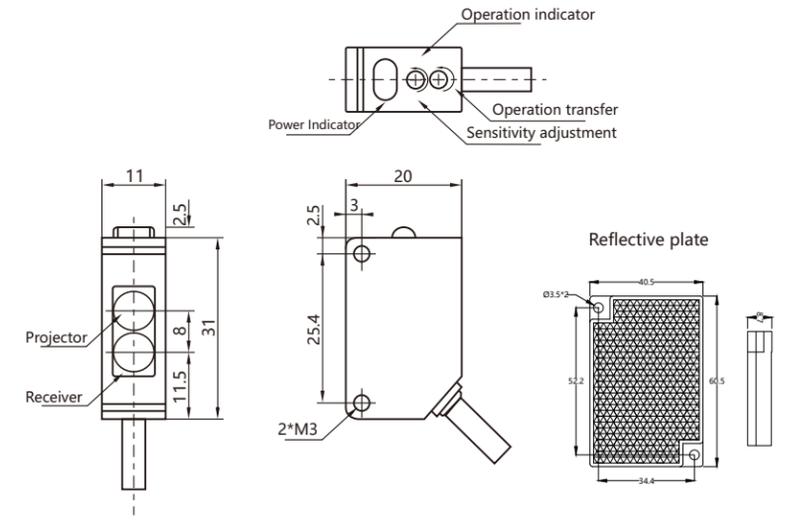
Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



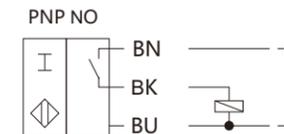
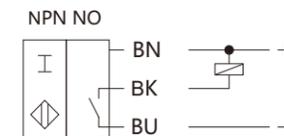
Order No

- GY-E3Z-B61
- GY-E3Z-B81

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Accessories

Mounting brackets, Screw*2

Technical parameters

General instructions

Output type	NPN,NPN ,three-wire: NO/NC
Detection method	Retro-reflective type (No m.s.r function)
Rated operating distance Sn	3m
Standard detection target	Reflector 40X60mm

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)

Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: orange LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

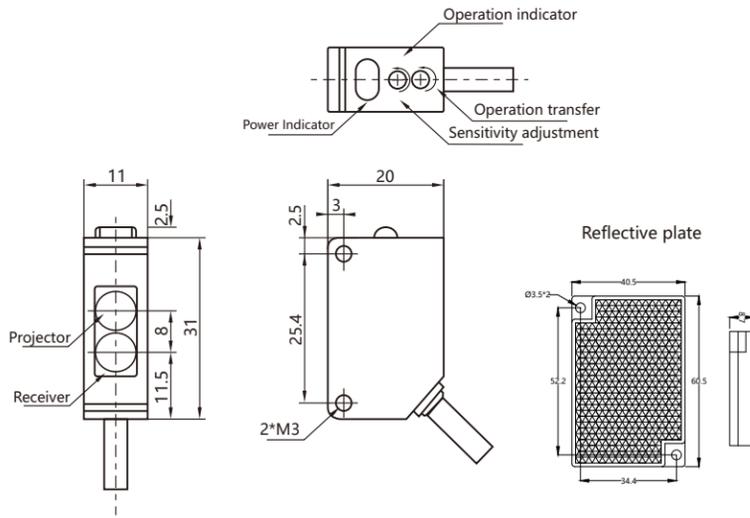
Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	PBT
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



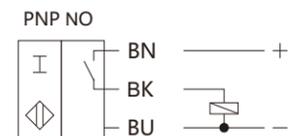
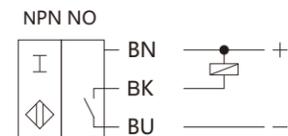
Order No

GY-E3Z-R61
GY-E3Z-R81

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Accessories

Mounting brackets, Screw*2

Technical parameters

General instructions

Output type	NPN,NPN ,three-wire: NO/NC
Detection method	Retro-reflective type (m.s.r function)
Rated operating distance Sn	4m
Standard detection target	Reflector 40X60mm

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)

Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: orange LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

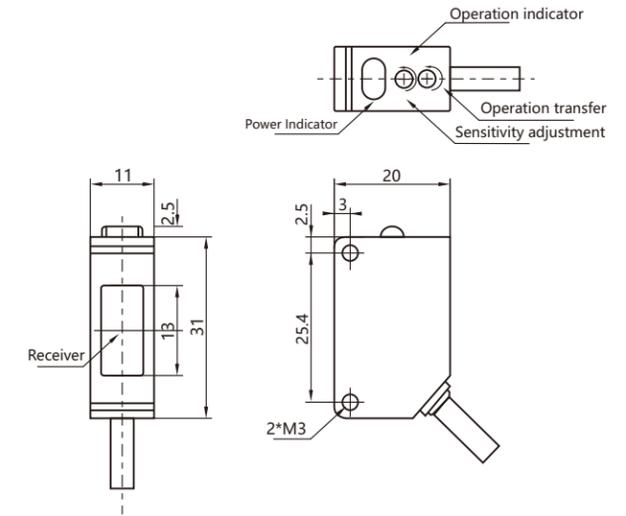
Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	PBT
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



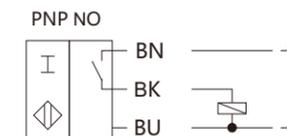
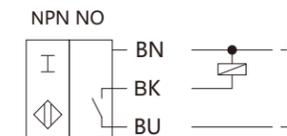
Order No

GY-E3Z-T61
GY-E3Z-T81
GY-E3Z-T62
GY-E3Z-T82

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Accessories

Mounting brackets, Screw*2

Technical parameters

General instructions

Output type	NPN,NPN ,three-wire: NO/NC
Detection method	Through-beam
Rated operating distance Sn	T61,T81:15m,T62,T82:25m
Standard detection target	>Φ15mm Opaque body

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)

Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: orange LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

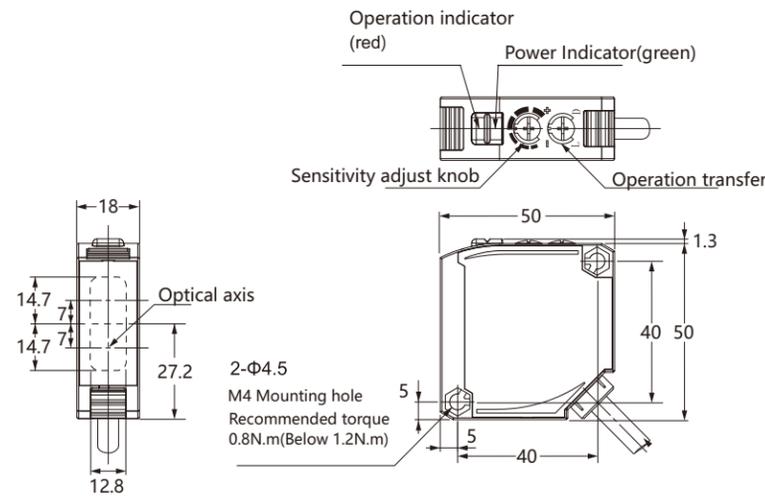
Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	PBT
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Dimensions



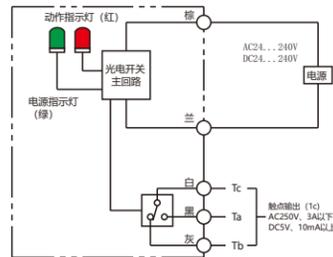
Order No

GY-E3JK-DR11-C
GY-E3JK-DR12-C

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Technical parameters

General instructions

Output type	Relay output: 1c contact AC250V 3A (cosφ=1) or less
Detection method	Diffuse reflection
Rated operating distance Sn	Dr11: 2.5m (white painting paper 300×300mm) DR12: 300mm (white painting paper 300×300mm)
Standard detection target	-

Rated grade

Rated voltage Ub	DC/AC24 ~ 240V±10% pulsation (p-p) below 10%
Response time	Below 20ms
Power consumption /Current consumption	DC, AC, below 2W

Working current IL	1c contact AC250V 3A (cosφ=1) or less
Life (relay output)	Mechanical: more than 50 million times (switching frequency 18,000 times/h) Electrical: more than 100,000 times (switching frequency 1,800 times/h)
light sources	Red LED (624nm)

Surroundings

Ambient temperature and humidity	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation) Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS (acrylonitrile butadiene styrene)
Lens	Methacrylic resin
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

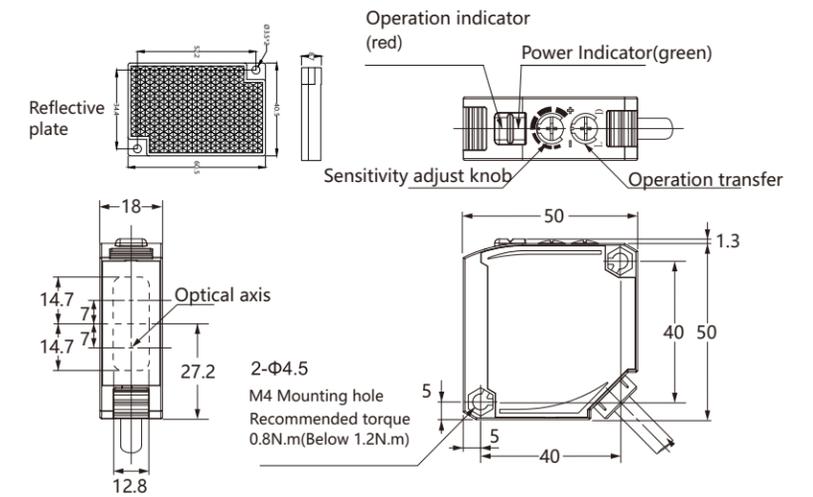
Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Mounting brackets, Screw*2

Dimensions



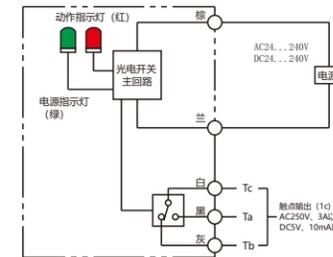
Order No

GY-E3JK-RR11-C

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Technical parameters

General instructions

Output type	Relay output: 1c contact AC250V 3A (cosφ=1) or less
Detection method	Retro-reflective type (No m.s.r function)
Rated operating distance Sn	RR11: 7m[100mm]*(When using E39-R1)
Standard detection target	Opaque objects above φ75mm

Rated grade

Rated voltage Ub	DC/AC24 ~ 240V±10% pulsation (p-p) below 10%
Response time	Below 20ms
Power consumption /Current consumption	DC, AC, below 2W

Working current IL	1c contact AC250V 3A (cosφ=1) or less
Life (relay output)	Mechanical: more than 50 million times (switching frequency 18,000 times/h) Electrical: more than 100,000 times (switching frequency 1,800 times/h)
light sources	Red LED (624nm)

Surroundings

Ambient temperature and humidity	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation) Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS (acrylonitrile butadiene styrene)
Lens	Methacrylic resin
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

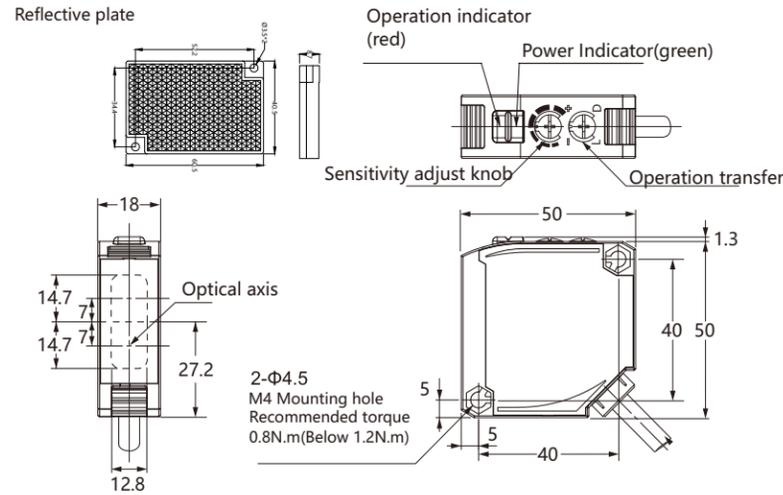
Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Mounting brackets, Screw*2



Dimensions



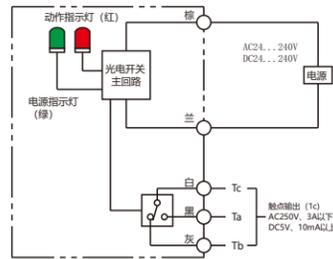
Order No

GY-E3JK-RR12-C

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Technical parameters

General instructions

Output type	Relay output: 1c contact AC250V 3A (cosφ=1) or less
Detection method	Retro-reflective type (m.s.r function)
Rated operating distance Sn	Dr11: 2.5m (white painting paper 300×300mm)

Standard detection target Opaque objects above φ75mm

Rated grade

Rated voltage Ub	DC/AC24 ~ 240V±10% pulsation (p-p) below 10%
Response time	Below 20ms
Power consumption /Current consumption	DC, AC, below 2W

Working current IL 1c contact AC250V 3A (cosφ=1) or less

Life (relay output) Mechanical: more than 50 million times (switching frequency 18,000 times/h)
Electrical: more than 100,000 times (switching frequency 1,800 times/h)

light sources Red LED (624nm)

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS (acrylonitrile butadiene styrene)
Lens	Methacrylic resin
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

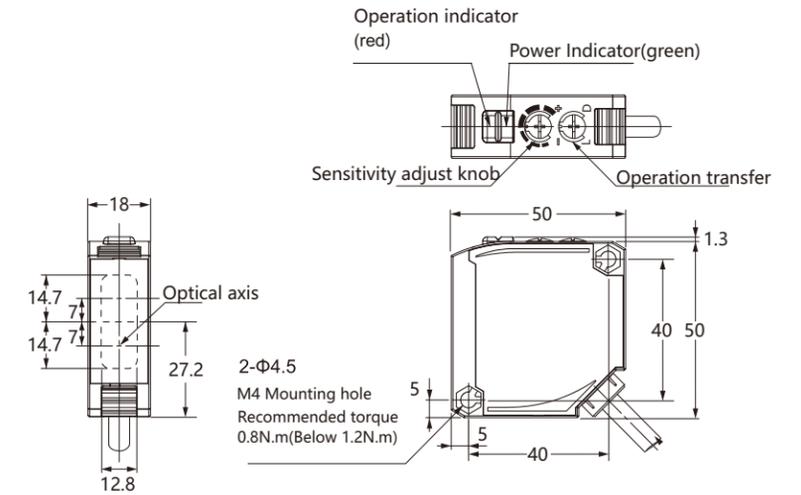
Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Mounting brackets, Screw*2



Dimensions



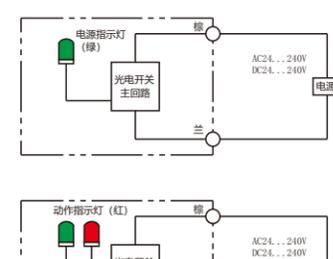
Order No

GY-E3JK-TR11-C
GY-E3JK-TR12-C

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Red light source for easy installation
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Technical parameters

General instructions

Output type	Relay output: 1c contact AC250V 3A (cosφ=1) or less
Detection method	Transmissive type
Rated operating distance Sn	TR11:20m TR12:5m

Standard detection target Opaque objects above φ75mm

Rated grade

Rated voltage Ub	DC/AC24 ~ 240V±10% pulsation (p-p) below 10%
Response time	Below 20ms
Power consumption /Current consumption	DC, AC, below 2W

Working current IL 1c contact AC250V 3A (cosφ=1) or less

Life (relay output) Mechanical: more than 50 million times (switching frequency 18,000 times/h)
Electrical: more than 100,000 times (switching frequency 1,800 times/h)

light sources Red LED (624nm)

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS (acrylonitrile butadiene styrene)
Lens	Methacrylic resin
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

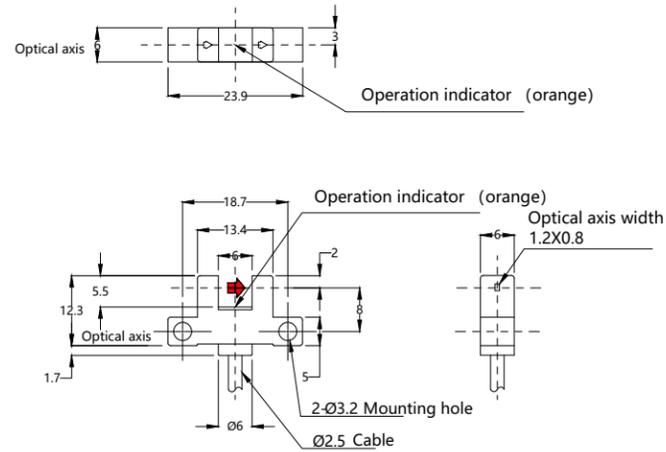
Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Mounting brackets, Screw*2

Dimensions



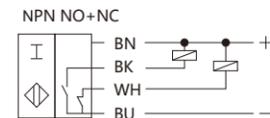
Order No

GY-PM-K25

Characteristic

- Integral resin molding for firm retention
- Industry leading! Protection structure IP64
- The distance between emission and reception is 6mm with margin
- Large and clear multi-angle indicator lights
- Easy adjustment based on emission and reception markings
- Compact design, all models can be installed in M3

Wiring form



Technical parameters

General instructions

Output type	NPN four-wire: NO+NC
Detection method	U type
Rated operating distance Sn	6mm(regular)
Minimum detection target	0.8mm×1.2mm Opaque body
Rated grade	
Rated voltage Ub	5V DC ~ 24V DC±10% pulsation (p-p) below 10%
Response time	below 0.05ms
No-load current Io	below 15mA
Voltage drop Ud	Below 2V (Inflow current 50mA), Below 1V(Inflow current 16mA)
Working current IL	≤50mA
Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	OrangeLED(lights up when light enters)

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Fluorescent lighting: Illumination below 1,000 lx on the receiving surface

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	PBT
Display cover	polycarbonate
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

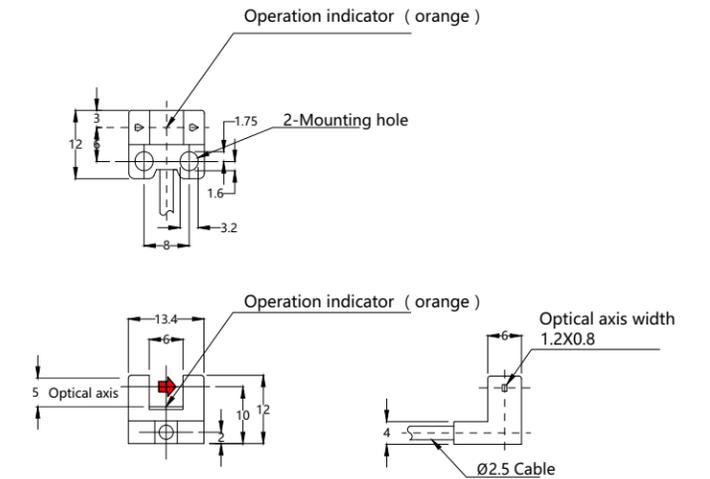
Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Screw*2

Dimensions



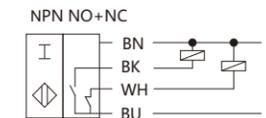
Order No

GY-PM-L25

Characteristic

- Integral resin molding for firm retention
- Industry leading! Protection structure IP64
- The distance between emission and reception is 6mm with margin
- Large and clear multi-angle indicator lights
- Easy adjustment based on emission and reception markings
- Compact design, all models can be installed in M3

Wiring form



Technical parameters

General instructions

Output type	NPN four-wire: NO+NC
Detection method	U type
Rated operating distance Sn	6mm(regular)
Minimum detection target	0.8mm×1.2mm Opaque body
Rated grade	
Rated voltage Ub	5V DC ~ 24V DC±10% pulsation (p-p) below 10%
Response time	below 0.05ms
No-load current Io	below 15mA
Voltage drop Ud	Below 2V (Inflow current 50mA), Below 1V(Inflow current 16mA)
Working current IL	≤50mA
Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	OrangeLED(lights up when light enters)

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Fluorescent lighting: Illumination below 1,000 lx on the receiving surface

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	PBT
Display cover	polycarbonate
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

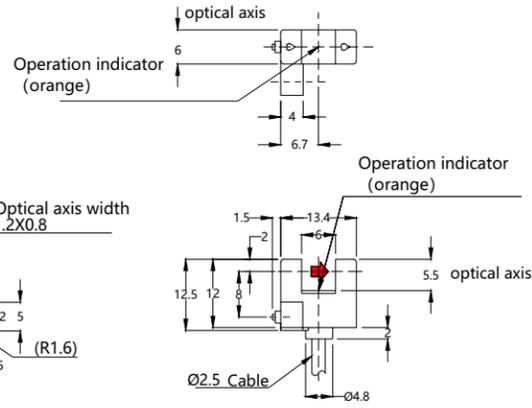
Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Screw*2

Dimensions



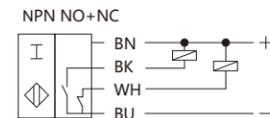
Order No

GY-PM-F25

Characteristic

- Integral resin molding for firm retention
- Industry leading! Protection structure IP64
- The distance between emission and reception is 6mm with margin
- Large and clear multi-angle indicator lights
- Easy adjustment based on emission and reception markings
- Compact design, all models can be installed in M3

Wiring form



Technical parameters

General instructions

Output type	NPN four-wire: NO+NC
Detection method	U type
Rated operating distance Sn	6mm(regular)
Minimum detection target	0.8mm×1.2mm Opaque body
Rated grade	
Rated voltage Ub	5V DC ~ 24V DC±10% pulsation (p-p) below 10%
Response time	below 0.05ms
No-load current Io	below 15mA
Voltage drop Ud	Below 2V (Inflow current 50mA), Below 1V(Inflow current 16mA)
Working current IL	≤50mA
Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	OrangeLED(lights up when light enters)

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Fluorescent lighting: Illumination below 1,000 lx on the receiving surface

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	PBT
Display cover	polycarbonate
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

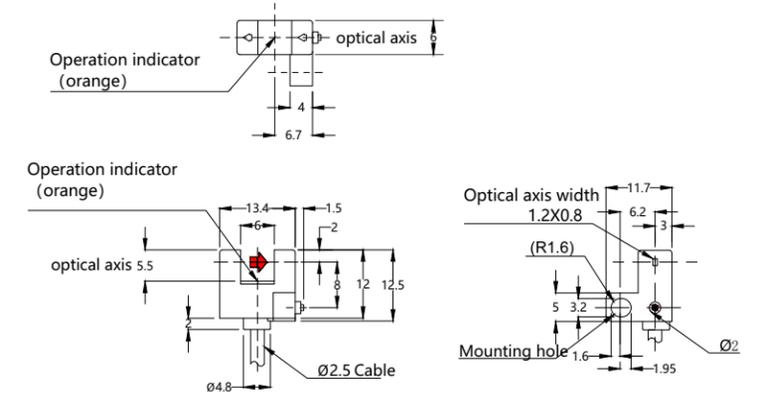
Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Screw*2

Dimensions



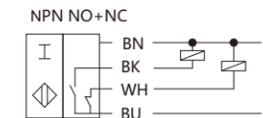
Order No

GY-PM-R25

Characteristic

- Integral resin molding for firm retention
- Industry leading! Protection structure IP64
- The distance between emission and reception is 6mm with margin
- Large and clear multi-angle indicator lights
- Easy adjustment based on emission and reception markings
- Compact design, all models can be installed in M3

Wiring form



Technical parameters

General instructions

Output type	NPN four-wire: NO+NC
Detection method	U type
Rated operating distance Sn	6mm(regular)
Minimum detection target	0.8mm×1.2mm Opaque body
Rated grade	
Rated voltage Ub	5V DC ~ 24V DC±10% pulsation (p-p) below 10%
Response time	below 0.05ms
No-load current Io	below 15mA
Voltage drop Ud	Below 2V (Inflow current 50mA), Below 1V(Inflow current 16mA)
Working current IL	≤50mA
Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	OrangeLED(lights up when light enters)

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Fluorescent lighting: Illumination below 1,000 lx on the receiving surface

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	PBT
Display cover	polycarbonate
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10 ~ 55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

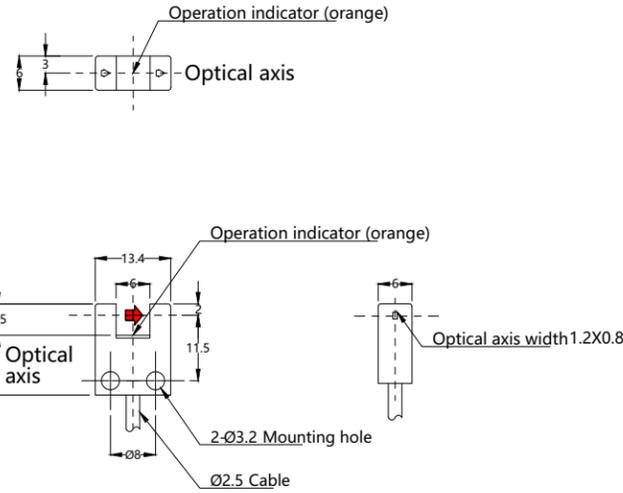
Certifications and Standards

Product certificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Screw*2

Dimensions



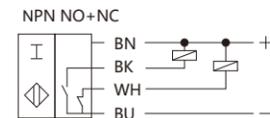
Order No

GY-PM-U25

Characteristic

- Integral resin molding for firm retention
- Industry leading! Protection structure IP64
- The distance between emission and reception is 6mm with margin
- Large and clear multi-angle indicator lights
- Easy adjustment based on emission and reception markings
- Compact design, all models can be installed in M3

Wiring form



Technical parameters

General instructions

Output type	NPN four-wire: NO+NC
Detection method	U type
Rated operating distance Sn	6mm(regular)
Minimum detection target	0.8mm×1.2mm Opaque body

Rated grade

Rated voltage Ub	5V DC~24V DC±10% pulsation (p-p) below 10%
Response time	below 0.05ms
No-load current Io	below 15mA
Voltage drop Ud	Below 2V (Inflow current 50mA), Below 1V(Inflow current 16mA)
Working current IL	≤50mA

Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	OrangeLED(lights up when light enters)

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Fluorescent lighting: Illumination below 1,000 lx on the receiving surface

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	PBT
Display cover	polycarbonate
Protection level	IEC IP64
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10~55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

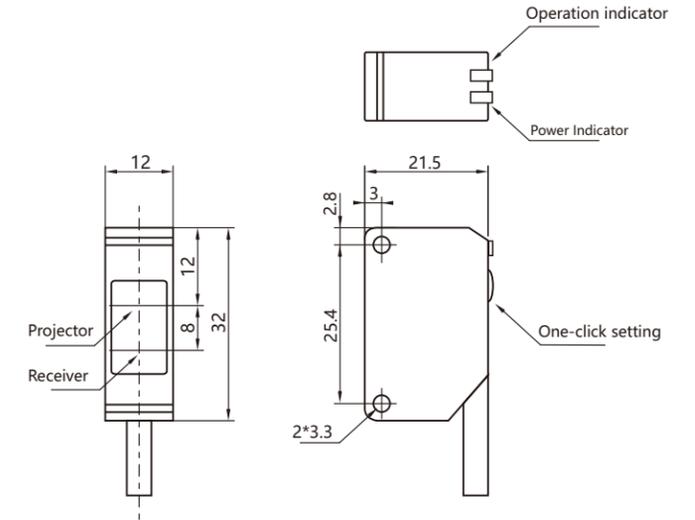
Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Screw*2

Dimensions



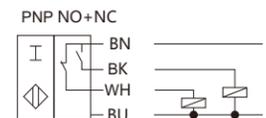
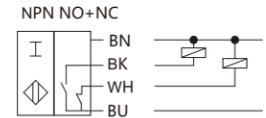
Order No

GY-TF150NC
GY-TF150PC

Characteristic

- High quality and reliability with ASIC for fast response and high frequency;
- Three light sources to choose from: red light, infrared light, laser;
- The case is made of oil-resistant and corrosion-resistant materials with IP67 protection structure
- Ability to prevent mutual interference;

Wiring form



Technical parameters

General instructions

Output type	NPN NO/NC or PNP NO/NC
Detection method	BGS
Rated operating distance Sn	150cm
Standard detection target	White paper 100×100mm

Rated grade

Rated voltage Ub	DC12-24V pulse (P-P) below 10% (10-30V)
Response time	<1ms
No-load current Io	<20mA
Voltage drop Ud	Below 2VDC (when the load current is below 100mA)
Working current IL	≤100mA (with overload protection)

Circuit protection	Short circuit protection, power reverse polarity protection
Switch status indication	Operating indicator: red LED; power supply, stability indicator: green LED

Surroundings

Ambient temperature	Operation: -25°C~+55°C (no freezing)/35~85%RH (no condensation)
Ambient temperature and humidity	Storage: -25°C~+70°C (no freezing)/35~95%RH (no condensation)
Ambient lighting	Sunlight: 10,000Lx Incandescent: 3,000Lx

Mechanical characteristics

Wiring form	PVC lead-out type 2m (standard type)
Case material	ABS
Lens	Optical PMMA
Protection level	IEC IP67
High voltage resistance	1000VAC, 50/60Hz 1minute between charged parts and case
Insulation resistance	More than 20MΩ (DC500V shaker) between charged parts and case
Vibration resistance	Durability: 10~55 Hz amplitude 1.5mm X, Y, Z each direction 2H
Shock resistance	500m/s ² X, Y, Z each direction 3 times

Certifications and Standards

Product cetificates	CE CCC CQC ISO9001
Standards compliant	IEC/EN 60947-5-2:2004

Accessories

Mounting brackets, Screw*2