

Elektrischer Anschluss

1

2

3

4

~/+UB

~/0 V

NO

C

31/40a

Sender

1

2

3

4

~/+UB

~/0 V

NO

C

31/40a

Emitter

Technische Daten

Einzelkomponenten

Sender

LA39/116

Empfänger

LK39/31/40a/116

Allgemeine Daten

Betriebsreichweite

0 ... 20 m

Grenzreichweite

25 m

Einstellbereich

2 ... 25 m

Referenzobjekt

Empfänger

Lichtsender

IRET

Lichtart

infrarot, Wechsellicht

Fremdlichtgrenze

IEC / EN 60947-5-2 , 10000 Lux

Kenndaten funktionale Sicherheit

MTTF_d

916 a

Gebrauchsdauer (T_M)

20 a

Diagnosedeckungsgrad (DC)

0 %

Anzeigen/Bedienelemente

Betriebsanzeige

LED rot (Sender)

Funktionsanzeige

LED gelb: Schaltzustand

LED rot: Vorausfallanzeige

Bedienelemente

Tastweitereinsteller, Hell-/Dunkelumschalter

Elektrische Daten

Betriebsspannung

U_B

12 ... 240 V DC / 24 ... 240 V AC (50 ... 60 Hz)

Welligkeit

10 %

Leerlaufstrom

I₀

≤ 60 mA Empfänger und Sender

Schutzklasse

II, Bemessungsspannung ≤ 250 V AC bei Verschmutzungsgrad 1-2 nach IEC 60664-1 Achtung !

Die Schutzklasse 2 ist nur gültig bei geschlossenem Klemmraum. Ausgangsstromkreis mit Basisisolierung zum Steuerstromkreis nach IEC/EN 61140

Leistungsaufnahme

P₀

≤ 3 VA

Bereitschaftsverzug

t_v

≤ 300 ms

Ausgang

Schaltungsart

hell-/dunkelschaltend

Signalausgang

1 Relaisausgang

Schaltspannung

max. 240 V AC ; 150 V DC

Schaltstrom

max. 3 A

Schaltleistung

DC: max. 90 W AC: max. 750 VA

Schaltfrequenz

f

≤ 25 Hz

Ansprechzeit

≤ 20 ms

Umgebungsbedingungen

Umgebungstemperatur

-25 ... 55 °C (-13 ... 131 °F)

Lagertemperatur

-40 ... 70 °C (-40 ... 158 °F)

Mechanische Daten

Gehäusebreite

25 mm

Gehäusehöhe

64 mm

Gehäusetiefe

75 mm

Schutzart

IP67

Anschluss

Klemmraum PG9, Aderquerschnitt ≤ 2,5 mm²

Material

Gehäuse

PBT

Lichtaustritt

PMMA

Masse

Sender: ca. 90 g Empfänger: ca. 110 g

Allgemeine Informationen

Lieferumfang

Montagehilfe

Normen- und Richtlinienkonformität

Richtlinienkonformität

EMV-Richtlinie 2004/108/EG

EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007+A1:2012

Normenkonformität

EMV-Richtlinie 2004/108/EG

EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007+A1:2012

Produktnorm

EN 60947-5-2:2007

IEC 60947-5-2:2007

Zulassungen und Zertifikate

EAC-Konformität

TR CU 020/2011

TR CU 004/2011

CCC-Zulassung

Certified by China Compulsory Certification (CCC)

Zulassungen

CE

Electrical connection

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31/40a

Emitter

Technical data

System components

Emitter

LA39/116

Receiver

LK39/31/40a/116

General specifications

Effective detection range

0 ... 20 m

Threshold detection range

25 m

Adjustment range

2 ... 25 m

Reference target

receiver

Light source

IRET

Light type

modulated infrared light

Ambient light limit

IEC / EN 60947-5-2 , 10000 Lux

Functional safety related parameters

MTTF_d

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Mission Time (T_M)

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Diagnostic Coverage (DC)

0 %

Indicators/operating means

Operation indicator

LED red (emitter)

Function indicator

LED yellow: switching state

LED red: pre-fault indication

Control elements

Sensing range adjuster, light-on/dark-on changeover switch

Electrical specifications

Operating voltage

U_B

12 ... 240 V DC / 24 ... 240 V AC (50 ... 60 Hz)

Ripple

10 %

No-load supply current

I₀

≤ 60 mA receiver and emitter

Protection class

II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution!

The protection class 2 is only valid when the terminal compartment is closed. output circuit has basic insulation to control circuit according to IEC/EN 61140

Power consumption

P₀

≤ 3 VA

Time delay before availability t_v

≤ 300 ms

Output

Switching type

light/dark on

Signal output

1 relay output

Switching voltage

max. 240 V AC ; 150 V DC

Switching current

max. 3 A

Switching power

DC: max. 90 W AC: max. 750 VA

Switching frequency

f

≤ 25 Hz

Response time

≤ 20 ms

Ambient conditions

Ambient temperature

-25 ... 55 °C (-13 ... 131 °F)

Storage temperature

-40 ... 70 °C (-40 ... 158 °F)

Mechanical specifications

Housing width

25 mm

Housing height

64 mm

Housing depth

75 mm

Degree of protection

IP67

Connection

terminal compartment PG9, ≤ 2.5 mm²

Material

Housing

PBT

Optical face

PMMA

Mass

Emitter: approx. 90 g receiver: approx. 110 g

General information

Scope of delivery

Mounting aid

Compliance with standards and directives

Directive conformity

EMC Directive 2004/108/EC

EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007+A1:2012

Standard conformity

EMC Directive 2004/108/EC

EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007+A1:2012

Product standard

EN 60947-5-2:2007

IEC 60947-5-2:2007

Approvals and certificates

EAC conformity

TR CU 020/2011

TR CU 004/2011

CCC approval

Certified by China Compulsory Certification (CCC)

Approvals

CE

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Operating voltage

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Ripple

10 %

No-load supply current

I₀

≤ 60 mA receiver and emitter

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Einweg-Lichtschränke
mit Klemmraum
Thru-beam sensor
with terminal compartment

LA39/LK39/31/40a/116

Part: 088806

Doc: 45-0827L

Date: 08/03/2018

CCC

CE

UL

088806

45-0827L

DIN A3 -> A7

08/03/2018

088806

45-0827L

PEPPERL+FUCHS

SENSING YOUR NEEDS

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Empfänger

LK39/31/40a/116

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Anschluss

Klemmraum PG9, Aderquerschnitt ≤ 2,5 mm²

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Gehäuse

PBT

Lichtaustritt

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Masse

Sender: ca. 90 g Empfänger: ca. 110 g

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Zulassungen

CE

Dimensions

alle Maße in mm

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31/40a

Emitter

Technical data

System components

Emitter

LA39/116

Receiver

LK39/31/40a/116

General specifications

Effective detection range

0 ... 20 m

Threshold detection range

25 m

Adjustment range

2 ... 25 m

Reference target

receiver

Light source

IRET

Light type

modulated infrared light

Ambient light limit

IEC / EN 60947-5-2 , 10000 Lux

Functional safety related parameters

MTTF_d

916 a

Mission Time (T_M)

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Diagnostic Coverage (DC)

0 %

Indicators/operating means

Operation indicator

LED red (emitter)

Function indicator

LED yellow: switching state

LED red: pre-fault indication

Control elements

Sensing range adjuster, light-on/dark-on changeover switch

Electrical specifications

Operating voltage

U_B

12 ... 240 V DC / 24 ... 240 V AC (50 ... 60 Hz)

Ripple

10 %

No-load supply current

I₀

≤ 60 mA receiver and emitter

Protection class

II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution!

The protection class 2 is only valid when the terminal compartment is closed. output circuit has basic insulation to control circuit according to IEC/EN 61140

Power consumption

P₀

≤ 3 VA

Time delay before availability t_v

≤ 300 ms

Output

Switching type

light/dark on

Signal output

1 relay output

Switching voltage

max. 240 V AC ; 150 V DC

Switching current

max. 3 A

Switching power

DC: max. 90 W AC: max. 750 VA

Switching frequency

f

≤ 25 Hz

Response time

≤ 20 ms

Ambient conditions

Ambient temperature

-25 ... 55 °C (-13 ... 131 °F)

Storage temperature

-40 ... 70 °C (-40 ... 158 °F)

Mechanical specifications

Housing width

25 mm

Housing height

64 mm

Housing depth

75 mm

Degree of protection

IP67

Connection

terminal compartment PG9, ≤ 2.5 mm²

Material

Housing

PBT

Optical face

PMMA

Mass

Emitter: approx. 90 g receiver: approx. 110 g

General information

Scope of delivery

Mounting aid

Compliance with standards and directives

Directive conformity

EMC Directive 2004/108/EC

EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007+A1:2012

Standard conformity

EMC Directive 2004/108/EC

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Control elements

Sensing range adjuster, light-on/dark-on changeover switch

Electrical specifications

Operating voltage

U_B

12 ... 240 V DC / 24 ... 240 V AC (50 ... 60 Hz)

Ripple

10 %

No-load supply current

I₀

≤ 60 mA receiver and emitter

Protection class

II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution!

The protection class 2 is only valid when the terminal compartment is closed. output circuit has basic insulation to control circuit according to IEC/EN 61140

Power consumption

P₀

≤ 3 VA

Time delay before availability t_v

≤ 300 ms

Output

Switching type

light/dark on

Signal output

1 relay output

Switching voltage

max. 240 V AC ; 150 V DC

Switching current

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0 ... 20 m

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Light type

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Ambient light limit

IEC / EN 60947-5-2 , 10000 Lux

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Operation indicator

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Function indicator

LED yellow: switching state

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Control elements

Sensing range adjuster, light-on/dark-on changeover switch

Electrical specifications

Operating voltage

U_B

12 ... 240 V DC / 24 ... 240 V AC (50 ... 60 Hz)

Ripple

10 %

No-load supply current

I₀

≤ 60 mA receiver and emitter

Protection class

II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Caution!

The protection class 2 is only valid when the terminal compartment is closed. output circuit has basic insulation to control circuit according to IEC/EN 61140

Power consumption

P₀

≤ 3 VA

Time delay before availability t_v

≤ 300 ms

Output

Switching type

light/dark on

Signal output

1 relay output

Switching voltage

max. 240 V AC ; 150 V DC

Switching current

max. 3 A

Switching power

DC: max. 90 W AC: max. 750 VA

Switching frequency

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≤ 25 Hz

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TR CU 020/2011

TR CU 004/2011

CCC approval

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Approvals

CE

Einweg-Lichtschränke
mit Klemmraum
Thru-beam sensor
with terminal compartment

LA39/LK39/31/40a/116

Part: 088806

Doc: 45-0827L

Date: 08/03/2018

CCC

CE

UL

088806

45-0827L

DIN A3 -> A7

08/03/2018

088806

45-0827L

PEPPERL+FUCHS

SENSING YOUR NEEDS

Dimensions

alle Maße in mm

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General specifications

Effective detection range

0 ... 20 m

Threshold detection range

25 m

Adjustment range

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Reference target

receiver

Light source

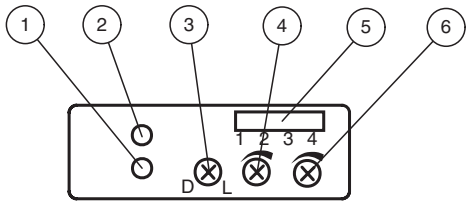
IRET

Light type

modulated infrared light

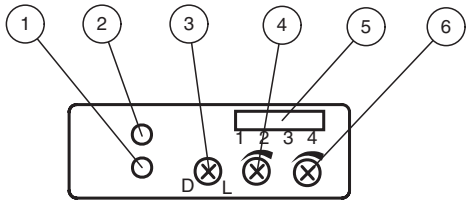
Ambient light limit</

Anzeigen/Bedienelemente



1	Betriebsanzeige rot (Sender)
1	Vorausfallanzeige rot (Empfänger)
2	Schaltanzeige gelb
3	Hell-/Dunkel-Schalter
4	Empfindlichkeitseinsteller
5	Schalter für Timerfunktion (Version -Z)
6	Zeiteinsteller (Version -Z)

Indicators/operating means

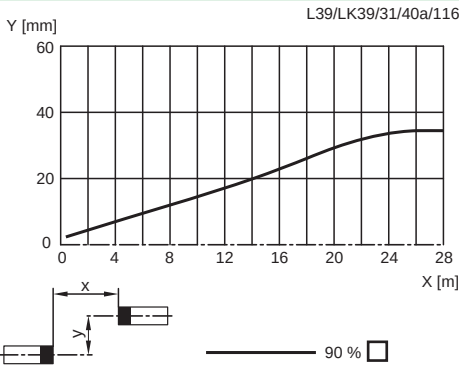


1	Operating display red (Transmitter)
1	Pre-fault indication red (Receiver)
2	Switch state yellow
3	Light/dark on switch
4	Sensitivity adjustment
5	Timer mode switch (version -Z)
6	Time adjuster (version -Z)

Charakteristische Ansprechkurve
Courbe de response caractéristique
Curve di risposta caratteristica

Characteristic response curve
Curva de respuesta característica

Möglicher Abstand (Versatz) zwischen optischer Achse und Referenzobjekt.
Permissible distance (offset) between optical axis and reference target.
Ecart possible entre l'axe optique et la cible de référence.
Desplazamiento entre el eje óptico y objeto de referencia.
Distanza possibile (sfalsato) tra l'asse ottico e l'oggetto di riferimento.

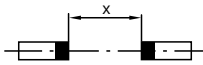
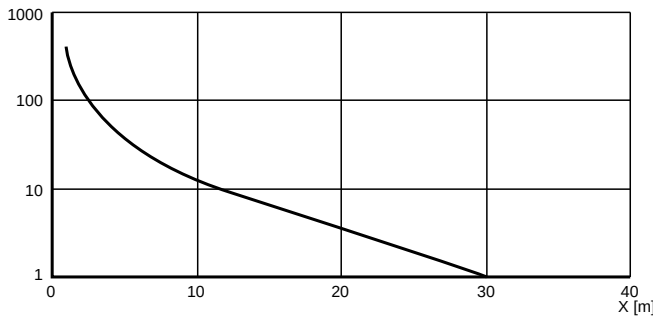


Relative Empfangslichtstärke
Intensité relative de la lumière reçue
Intensità relativa luce in ricezione

Relative received light strength
Potencia relativa de recepción lumínica

Funktionsreserve, Stability control, Réserve de fonctionnement, Reserva de función, Funzione riserva

L39
L39-Z



Beschreibung/Description

D

Bestimmungsgemäße Verwendung:

Die Einweglichtschranke ist ein optoelektronischer Sensor bestehend aus Sender und Empfänger in separaten, räumlich getrennt angeordneten Gehäusen. Der Sender strahlt direkt auf den Empfänger. Unterbricht ein Objekt den Lichtstrahl wird die Schaltfunktion ausgelöst.

Montagehinweise:

Die Sensoren können über Durchgangsbohrungen direkt befestigt werden oder über den mitgelieferten Haltewinkel.

Die Untergrundfläche muss plan sein, um Gehäuseverzug beim Festziehen zu vermeiden. Es empfiehlt sich, die Mutter und Schraube mit Federscheiben zu sichern, um einer Dejustierung des Sensors vorzubeugen.

Justierung:

Sender und Empfänger gegenüberliegend montieren und grob ausrichten.

Die genaue Ausrichtung erfolgt durch horizontales und vertikales Schwenken des Senders oder Empfängers. Bei optimalen Lichtempfang leuchtet die gelbe LED im Empfänger konstant. Bei ungenauer Ausrichtung leuchtet die rote LED.

Kontrolle Objekterfassung:

Das Objekt in den Strahlengang bringen. Wird das Objekt erfasst, erlischt die gelbe LED. Leuchtet die gelbe LED weiterhin muss die Empfindlichkeit am Potentiometer so lange reduziert werden bis sie erlischt. Nach Entfernen des Objektes leuchtet die Anzeige-LED gelb wieder konstant. Bei Verschlechterung des Empfangs (Verschmutzung oder Dejustage) und ungenügender Funktionsreserve leuchtet die rote LED im Empfänger.

Reinigung:

Wir empfehlen in regelmäßigen Abständen den Lichtaustritt zu reinigen und Verschraubungen, sowie die Steckverbindungen zu überprüfen.

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Conventional use:

The emitter and receiver of the single path light beam switch are housed in different cases that are separated from each other. The emitter transmits directly to receiver. If an object interrupts the light beam the switching function is initiated.

Mounting instructions:

The sensor can be fastened over the through-holes directly or with the included mounting bracket. The base surface must be flat to avoid distorting the housing during mounting. It is advisable to secure the bolts and screws with washers so that the sensor does not become misaligned.

Instructions for adjustment:

Emitter and receiver mount to opposite each other and align roughly. The exact adjustment takes by swivelling the emitter or receiver horizontally and vertically. With optimum light reception the yellow LED (only receiver) lights up constantly. In case of bad alignment, the red LED lights up.

Object detection check:

Move the object into the light beam. If the object is recorded, the yellow LED goes off. If it doesn't go off, reduce the sensitivity with the potentiometer until it goes off. It should light up constantly again when the object is removed.

The red LED lights up if reception deteriorates (e.g. soiled lenses or by maladjustment) and when falling short of the stability control.

Iustration:

We recommend that you clean the optical interfaces and check the plug-in connections and screw connections at regular intervals.