

SICK

8027552.1GKP/0814881 0323 COMAT

WLL180T-L432S24

- | | |
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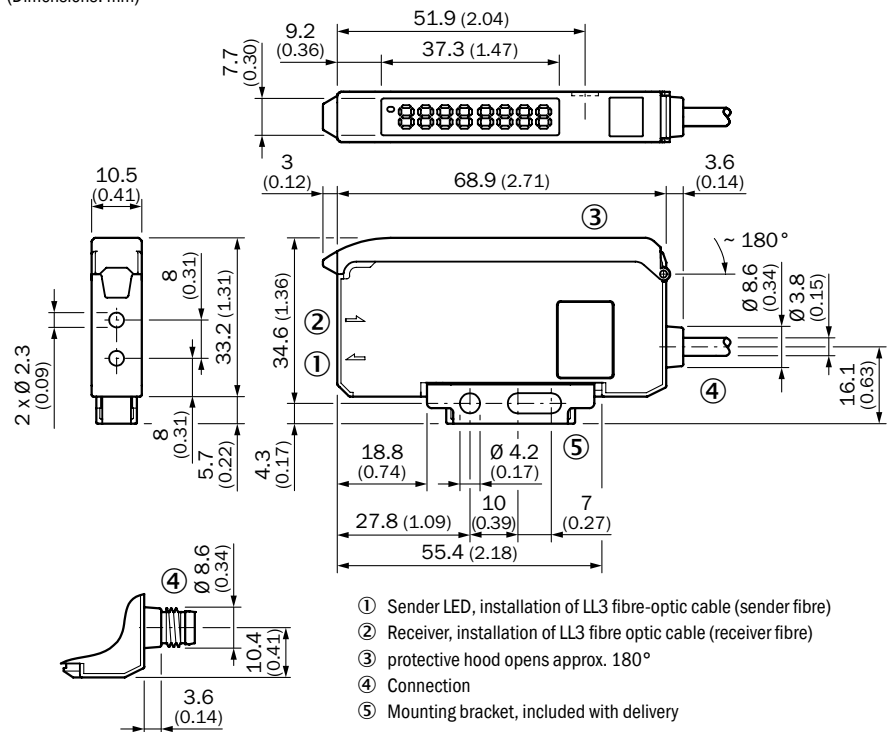
SICK AG, Erwin-Sick-Strasse 1, DE-79183 Waldkirch
Detailed addresses and further locations at www.sick.com



English

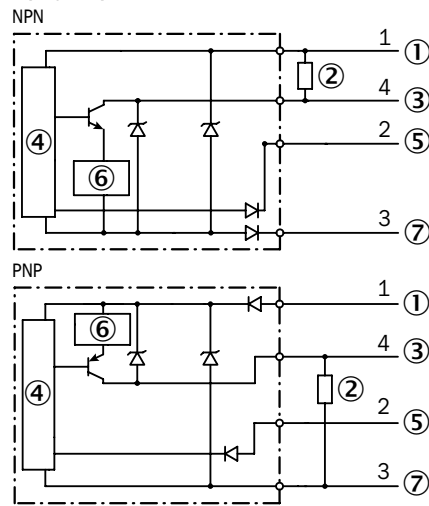
H WLL180T

(Dimensions: mm)

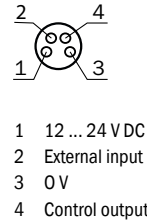


BZ m149

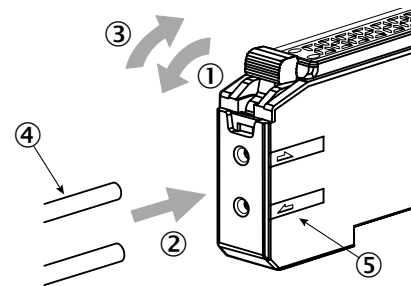
A Input/Output Schematic



- ① Brown (BN): 12 ... 24 V DC
- ② Load
- ③ Black (BK): Control output
- ④ Main circuit
- ⑤ White (WH): External input
- ⑥ Protection circuit
- ⑦ Blue (BU): 0 V

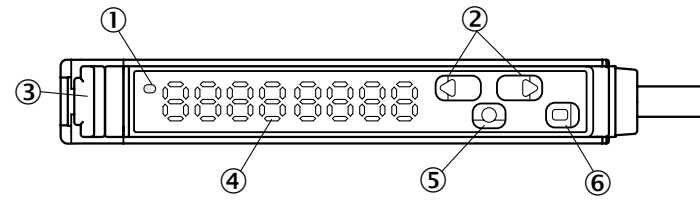


D Interconnection



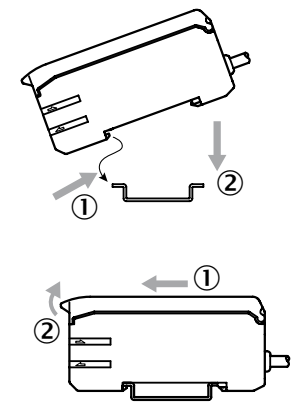
- ① Open fiber lock lever.
- ② Insert fiber into holes to stop.
- ③ Return fiber lock lever until it stops.
- ④ Fiber cable
- ⑤ Insertion sign of fiber cable

B Master (Base unit)

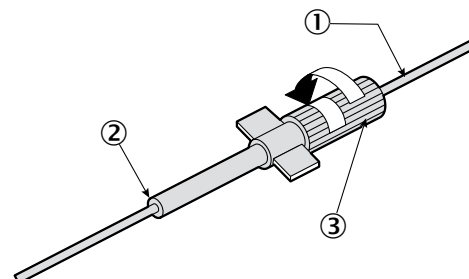


- ① Output Indicator (orange)
- ② Select button
- ③ Lock lever
- ④ Display
- ⑤ Mode button
- ⑥ Teach-in button

C Attaching and Removing to/from DIN rail

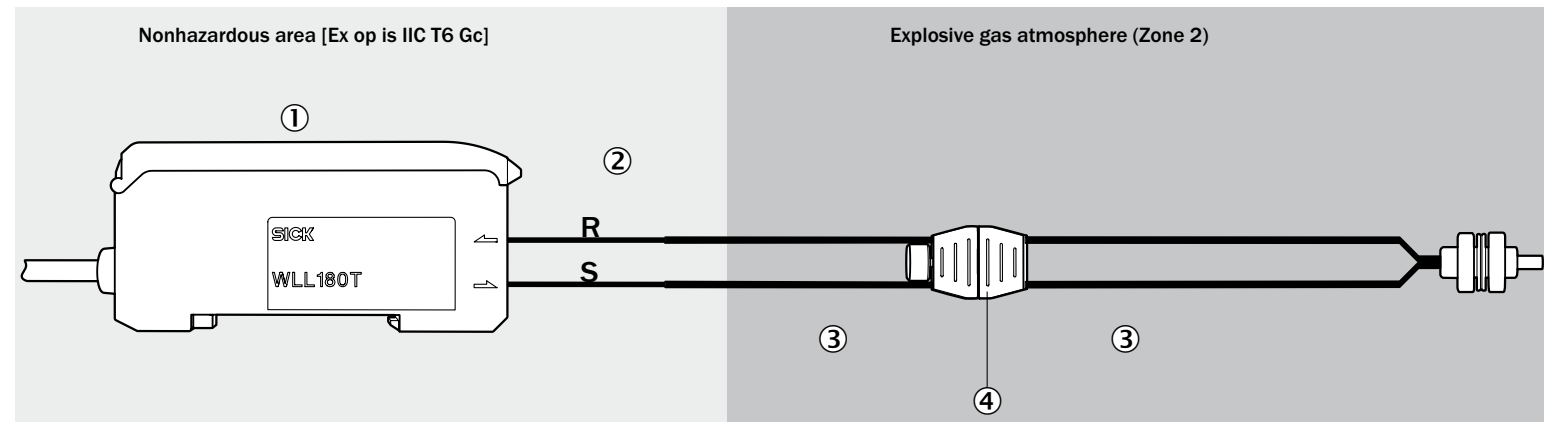


E How to use fine fiber



- ① Fine fiber
- ② Cut position
- ③ Adapter cap

F Ignition proof application



- ① Fiber amplifier: WLL180T-L432S24
- ② P_{opt} < 15 mW
- ③ Fiber: LL3-KX023000S01, LL3-KD0210000S01, LL3-KX029000S01, LL3-KD0210000S01
- ④ Fiber coupling interface („threaded connection“)



Safety Precautions

- Carefully read and understand the safety precautions before operation.
- The important information is provided to protect your health and property.
- Do not apply any other installing or operating procedure other than that described in this operating instruction.
- It is dangerous to wire or attach/remove the connector with power on. Make sure to turn off the power before operation.
 - Make sure to use the product with the protective cover attached and closed.
 - The product is not designed for outdoor use.
 - Do not use the product in water.
 - Do not disassemble, repair, or convert the product. Failure to do this may cause failure, fire or electric shock.
 - Operate within the rated range.
 - Keep the packaging carefully
 - Product for this application has been specified to conform to IECEx ignition protection type Ex op is IIC T6 Gc.
 - IECEx regulations: IEC 60079-0:2017, Edition 7.0 IEC 60079-28:2015, Edition 2.0
 - Within the application the fiber amplifier WLL180T is placed within an external junction box not considered to be in explosive atmosphere. The LL3 fiber will be mounted from WLL180T in junction box to the cabinet that contains Zone 2 gas atmosphere.
 - Connection, assembly, and settings only by competent technicians
 - The light beam of the LED may not focus with additional optical parts
 - Product must only be used with SICK fiber amplifier sets LL3-KX023000S01 & LL3-KD0210000S01 or LL3-KX029000S01 & LL3-KD0210000S01
 - Protect the device against moisture and soiling when operating
 - No safety component in accordance with EU machine guidelines

Caution, special condition

- The device must be mounted so that there can be no hazard caused by mechanical damage.
- Exceeding tensile loading at the cable is to avoid
- Select the position for mounting to protect sensor and fibers for direct sun light

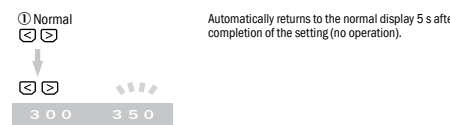
Base unit	WLL180T-L432S24
Connection type	Cable
Control output	NPN open collector 100 mA / ≤ 30 V DC resistive Load current: ≤ 100 mA Residual voltage ≤ 1.8 V
Power source, voltag	12 ... 24 V DC ± 10 % incl. ripple ¹⁾
Consumption current	≤ 50 mA/24 V
Response time	16 μs / 70 μs / 250 μs / 2 ms / 8 ms
Output method	Light on / Dark on switching type in the function
Short-circuit protection	✓
Light source	Red LED
Indicator light / Display	Output indicator light: Orange (Q) 7-segment 8-digit display
Sensitivity setting	Teach-in / Manual adjustment
Timer function	Switch-off delay, Switch-on delay, One shot, On / Off delay, One shot delay
Timer time	0,1 ms ... 9999 ms
Setting input	External input setting (Teach-in / Test / Sync)
Operating temperature / humidity	-25 ... +55 °C/35 ... 85% RF (No freezing and no condensation) ²⁾
Store temperature / humidity	-40 ... +70 °C/35 ... 85% RF (No freezing and no condensation)
Shock resistance	10 ... 55 Hz amplitude 1.5 mm 2 hours for each direction x, y, z
Protective category	IP 50 ³⁾
Material	PC
Weight	Cable type: 71 g, M8 connector type: 25 g

¹⁾ 12 ... 24 V DC ± 10 %, class 2 power supply
²⁾ Max. ambient temperature: +55 °C
 temp. / maximum units:
 -25 ... +55 °C / 3 units (output current: 100 mA max.)
 -25 ... +50 °C / 8 units (output current: 50 mA max.)
 -25 ... +45 °C / 16 units (output current: 20 mA max.)
³⁾ UL enclosure type 1

A Input / Output schematic

Manual adjustment

Pressing the select button flashes the threshold. It indicates that adjustment is possible. Adjust to any value using the select buttons.

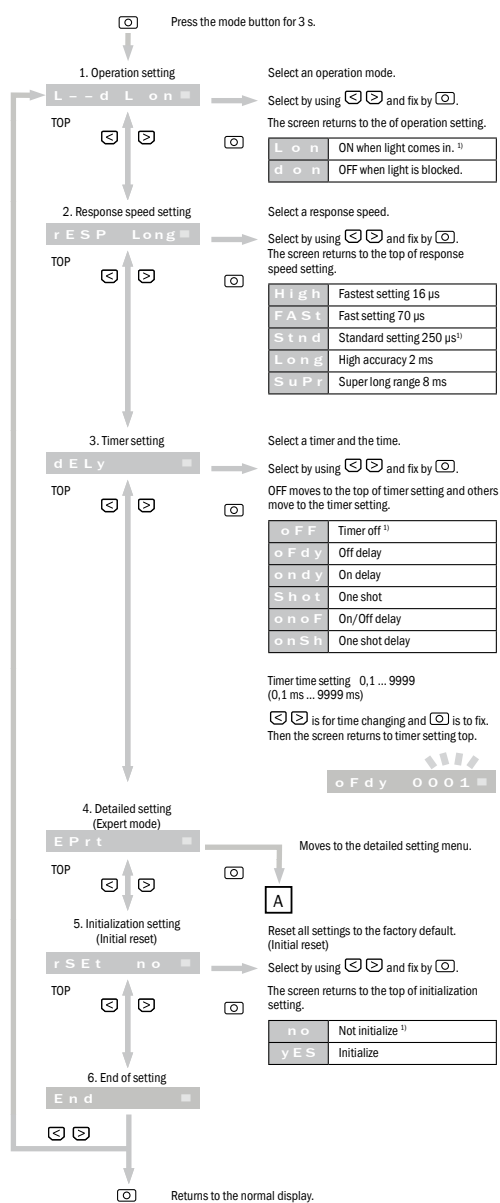


Error display in Teach-in

An error message is displayed in the event of error during adjustment. Refer to the table below for readjustment.

Err 1	Sensing level is too low
Err 2	Sensing level is saturated
Err 3	Difference of sensing level between two points is too small

Function setting



B Each part

C Installation of amplifier

Attaching and removing to / from DIN rail

Attachment of sensor unit:

① Hook the claw on the connecting side of fiber cable to the DIN rail.

② Then press down the hook until it locks.

Removal of sensor unit:

① Pushing the unit to the direction of the arrow.

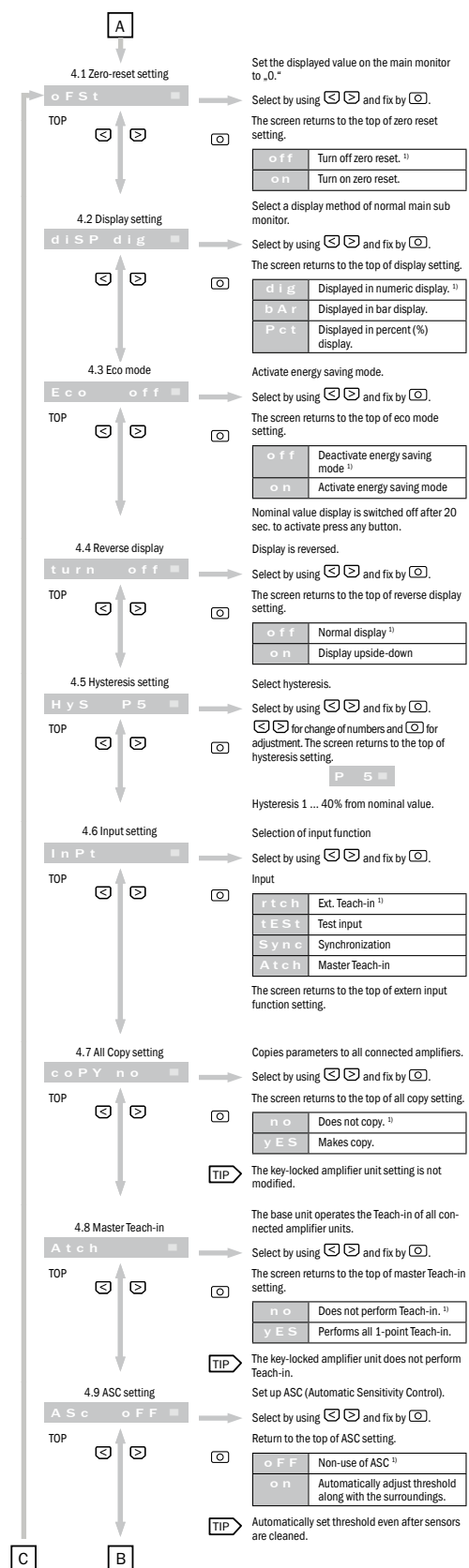
② Hold up the connecting side of fiber cable and remove the unit.

D How to connect the fiber cables

- Open fiber lock lever (see ①).
- Insert fiber into holes to stop. (see ② - approximately 15 mm).
- Return fiber lock lever until it stops (see ③).

Caution

When using a proximity variant with coaxial fiber arrangement, connect the core fibers or fibers with white marking to the sender. Connect the second fibers to the receiver.



E How to use fine fiber

Turn adapter cap anticlockwise completely, then appropriately insert the fiber. Be locked by turning adapter cap clockwise (see ①).

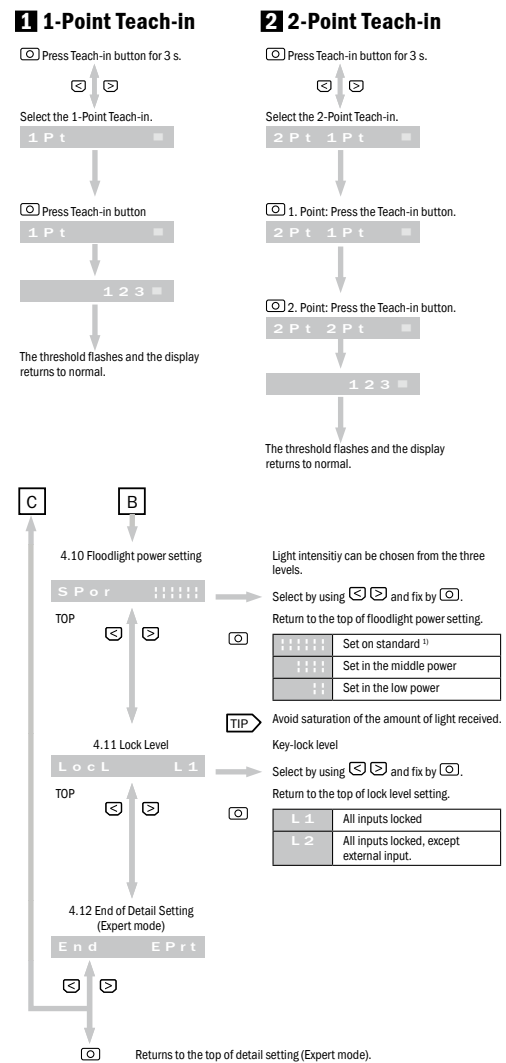
Cut the excess fiber with fiber cutter.

F Ignition proof application:

The use of WLL180T in an ignition proof application shall be limited to the following conditions.

The electronic component WLL180T must be placed outside of explosive atmosphere. The connected fiber LL3 is fed from this area into the explosive atmosphere Zone 2 (classification Ex op is IIC T6 Gc).

Adjustment



Precautions for function setting

- ¹⁾ means factory default setting
- Hold down the operation button for approx. 0.3 s if not especially specified.
- The display flashes when the setting selection is available.

Returning to normal display with one button

Pressing the button for 2 s or more in setting a function returns to normal display (RUN mode) without using the menu point End.

Key lock

Locks all inputs according to the selected Level in 4.11. Useful to prevent accidental operation.

Hold down the buttons for 2 s or more simultaneously in the RUN mode. Operate in the same way to cancel as well.



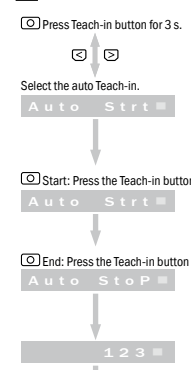
SAM Circuit (ASC = Automatic Sensitivity Control)

Threshold value will be automatically reset as the sensor continuously monitors returned light. Sudden change of returned light, like cleaning of lens, will trigger reset of the best threshold computed in the circuit (SAM circuit).

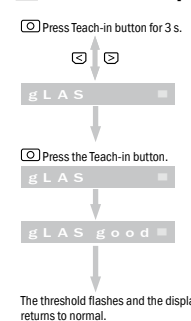
External Teach-in

The external teach-input must be activated for > 200 ms to perform a teach-in (ET to > 10 V ... < U_i for PNP devices; ET to 0 V for NPN devices).

3 Auto Teach-in



5 Teach-in transparent object

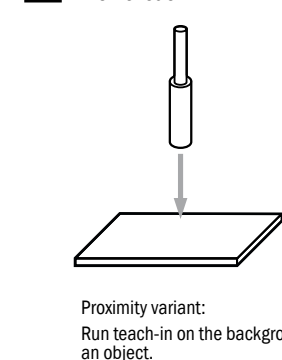


Options

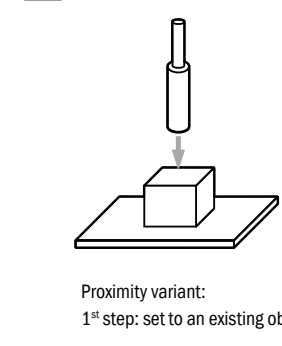
G End unit
BEF-EB01-W190

- Specifications and equipment are subject to change without any obligations on the part of manufacture.
- For further information regarding configuration menu and Teach-in function please take note of the application manual or www.sick.com.

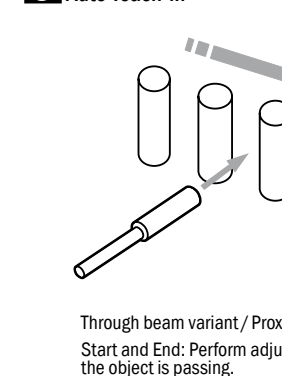
1 1-Point Teach-in



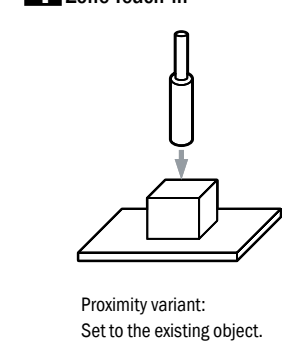
2 2-Point Teach-in



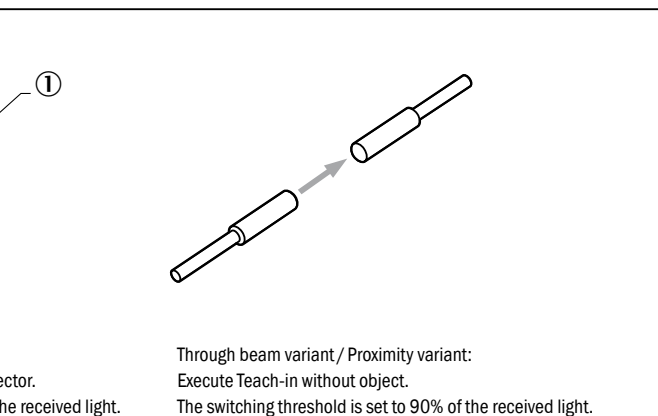
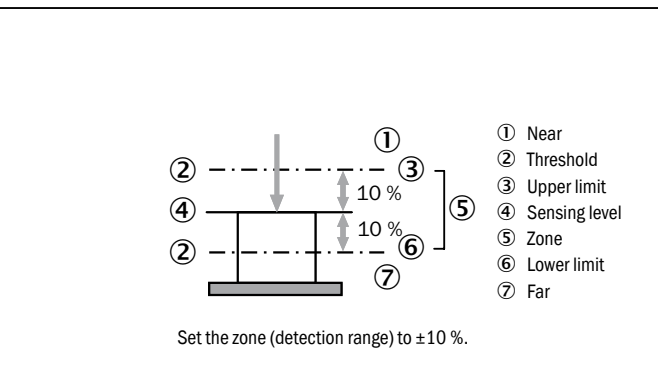
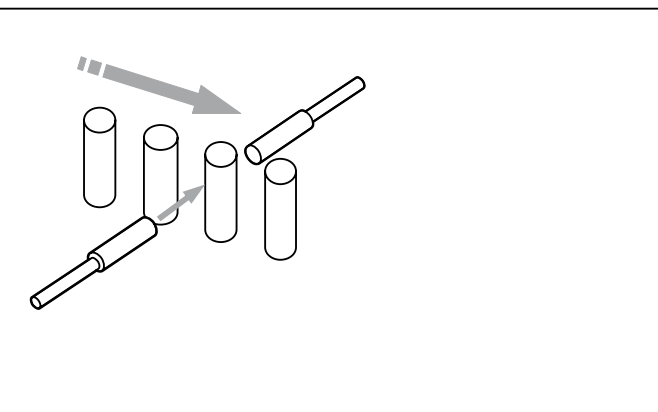
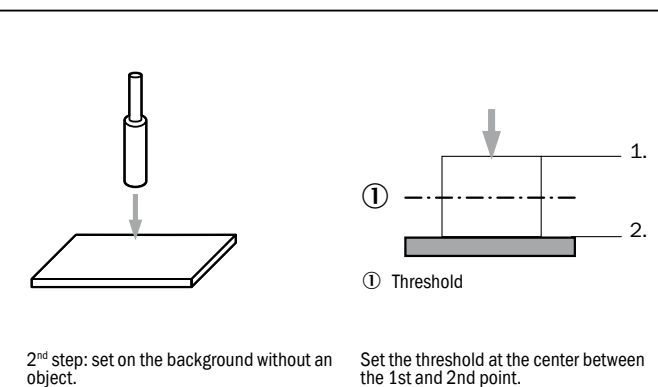
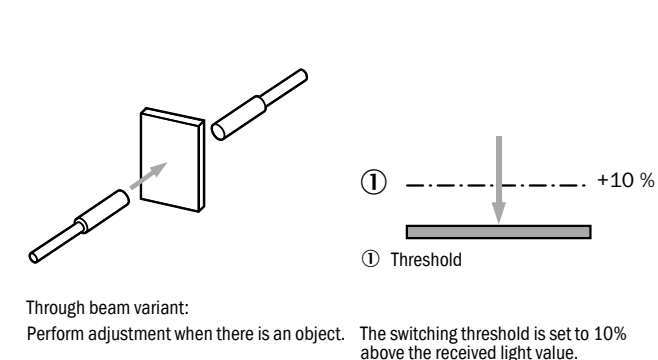
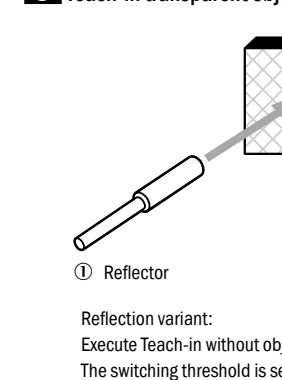
3 Auto Teach-in



4 Zone Teach-in



5 Teach-in transparent objects



TYPE:
WLL180T-L432S24

SICK

SICK AG
Erwin-Sick-Straße 1
D-79183 Waldkirch
Germany


Ident-Nr.: 9358276

EU declaration of conformity en
The undersigned, representing the following manufacturer herewith declares that the product is in conformity with the provisions of the following EU directive(s) (including all applicable amendments), and that the respective standards and/or technical specifications have been used as a basis for this (download: [www.sick.com](#)).

You can obtain the EU declaration of conformity with the standards used at: [www.sick.com](#)

Date: 2022-03-01


I.V. Davorin Jaksic
Head of R&D Business Unit
Photoelectric Sensors & Fibers
(GBC Presence Detection)


I.V. Joachim Schultis
Head of Operations Business Unit
Photoelectric Sensors & Fibers
(GBC Presence Detection)

EU-Konformitätserklärung de
Der Unterzeichner, der den nachstehenden Hersteller vertritt, erklärt hiermit, dass das Produkt in Übereinstimmung mit den Bestimmungen der nachstehenden EU-Richtlinie(n) (einschließlich aller zutreffenden Änderungen) ist, und dass die entsprechenden Normen und/oder technischen Spezifikationen zugrunde gelegt sind (Download: [www.sick.com](#)).

ЕС декларация за съответствие bg
Подписалият, който представя долупоменатия производител, обявява, че продуктът съответства на разпоредбите на долуизброените директиви на ЕС (включително на всички действващи изменения) и че се базира на съответните норми и/или технически спецификации за приложение (Изтегляне: [www.sick.com](#)).

Prohlášení o shodě EU cs
Niže podepsaný, zastupující následujícího výrobce, tímto prohlašuje, že výrobek je v souladu s ustanoveními následující(ch) směrnice (směrníc) EU (včetně všech platných změn) a že podkladem byly odpovídající normy a/nebo technické specifikace. (Ke stažení: [www.sick.com](#)).

EU-overensstemmelseerklæring da
Undertegnede, der repræsenterer følgende producent, erklærer hermed, at produktet er i overensstemmelse med bestemmelserne i følgende EU-direktiv(er) (inklusive alle gældende ændringer), og at alle tilsvarende standarder og/eller tekniske specifikationer er blevet anvendt (download: [www.sick.com](#)).

ΕΕ-Δήλωση συμμόρφωσης el
Ο Υπογράφων, εκπροσωπών τον ακόλουθο κατασκευαστή, δηλώνει με το παρόν έγγραφο ότι το προϊόν συμμορφώνεται με τους όρους της(των) ακόλουθ(ών) Οδηγία(ών) της ΕΕ (συμπεριλαμβανομένων όλων των εφαρμοζόμενων τροποποιήσεων) και ότι έχουν ληφθεί υπόψη τα αντίστοιχα πρότυπα ή/και οι τεχνικές προδιαγραφές (λήψη: [www.sick.com](#)).

Declaración de conformidad de la UE es
El abajo firmante, en representación del fabricante indicado a continuación, declara que el producto es conforme con las disposiciones de la(s) siguiente(s) directiva(s) de la UE (incluyendo todas las modificaciones aplicables) y que las respectivas normas y/o especificaciones técnicas han sido utilizadas como base. (Download: [www.sick.com](#)).

EL vastavusdeklaratsioon et
Allakirjutanu, kes esindab järgmist tootjat, kinnitab käesolevaga, et antud toode vastab järgneva(te) EL-i direktiivi(de) sätetele (kaasa arvatud kõikidele asjakohastele muudatustele) ja et on rakendatud vastavaid nõudeid ja/või tehnilisi kirjeldusi. (Allalaadimine: [www.sick.com](#)).

EU-vaatimustenmukaisuusvakuutus fi
Allekirjoittanut, joka edustaa alla mainittua valmistajaa, vakuuttaa täten, että tuote on seuraavan (-ien) EU-direktiivin (-ien) vaatimusten mukainen (mukaan lukien kaikki sovellettavat muutokset) ja että sen perustana ovat vastaavat standardit ja tekniset erittelyt (Latausosoite: [www.sick.com](#)).

Déclaration de conformité UE fr
Le soussigné, représentant le constructeur ci-après, déclare par la présente que le produit est conforme aux exigences de la (des) directive(s) de l'UE suivantes (y compris tous les amendements applicables) et que les normes et/ou spécifications techniques correspondantes ont servi de base (téléchargement: [www.sick.com](#)).

Izjava o skladnosti EU hr
Potpisnik, koji zastupa proizvođača navedenog u nastavku, ovime izjavljuje da je proizvod usklađen s odredbama dolje navedenih direktiva EU-a (uključujući sve nastale izmjene) i da je u skladu s odgovarajućim normama i/ili tehničkim specifikacijama (preuzimanje: [www.sick.com](#)).

EU megfeleléségi nyilatkozat hu
Alulírott, az alábbi gyártó képviselőtében ezennel kijelenti, hogy a termék megfelel az alábbi EU-irányelv(ek) követelményeinek (beleértve azok minden vonatkozó módosítását) és kijelenti, hogy a megfelelő szabványokat és/vagy műszaki előírásokat vette alapul. (Letöltés: [www.sick.com](#)).

ESB-samræmisýfirlýsing is
Undirritaður, fyrir hönd framleiðandans sem nefndur er hér að neðan, lýsir því hér með yfir að varan er í samræmi við ákvæði eftirtalinnna ESB-tilskipana (að meðtöldum öllum breytingum sem við eiga) og að þessu til grundvallar samræmist varan viðeigandi stöðlum og/eða tækniforskriftum (niðurhal: [www.sick.com](#)).

Dichiarazione di conformità UE it
Il sottoscritto, in qualità di rappresentante del costruttore sotto indicato, dichiara con la presente che il prodotto è conforme alle disposizioni della(e) seguente(i) direttiva(e) UE (comprese tutte le modifiche applicabili) e che si basa sulle rispettive norme e/o specifiche tecniche (scaricabili dal sito web: [www.sick.com](#)).

ES atitikties deklaracija lt
Pasirašiusysis, atstovaujantis šiam gamint ojui deklaruoja, kad gaminys atitinka šios (ių) ES direktyvos (ų) reikalavimus (įskaitant visus taikytinus keitinius) ir kad buvo remtasi antrajame puslapyje nurodytais standartais ir (arba) techninėmis specifikacijomis (atsisiųsti: [www.sick.com](#)).

ES atbilstības deklarācija lv
Apakšā parakstījusies persona, kas pārstāv zemāk minēto ražotāju, ar šo deklarē, ka izstrādājums atbilst zemāk minētajai (-ām) ES direktīvai (-ām) (ieskaitot visus atbilstošos grozījumus) un ka izstrādājuma izgatavošanā par pamatu ņemti attiecīgie standarti un/vai tehniskās specifikācijas (lejupielāde: [www.sick.com](#)).

EU-verklaring van overeenstemming nl
Ondergetekende, vertegenwoordiger van de volgende fabrikant, verklaart hiermee dat het product voldoet aan de bepalingen van de volgende EU-richtlijn(en) (inclusief alle van toepassing zijnde wijzigingen) en dat de overeenkomstige normen en/of technische specificaties als grondslag werden gebruikt (Download: [www.sick.com](#)).

EU-samsvarserklæring no
Undertegnede, som representerer nedennævnte produsent, erklærer herved at produktet er i samsvar med bestemmelsene i følgende EU-direktiv(er) (inkludert alle relevante endringer) og at relevante normer og/eller tekniske spesifikasjoner er blitt anvendt (Nedlasting: [www.sick.com](#)).

Deklaracja zgodności UE pl
Niżej podpisany, reprezentujący wymienionego poniżej producenta oświadcza niniejszym, że wyrób jest zgodny z postanowieniami podanej/podanych poniżej dyrektyw/y UE (wraz z odpowiednimi poprawkami) oraz, że za podstawę wzięto odpowiednie normy i/lub specyfikacje techniczne (download: [www.sick.com](#)).

Declaração UE de conformidade pt
O abaixo assinado, que representa o seguinte fabricante, declara deste modo que o produto está em conformidade com as disposições da(s) seguinte(s) directiva(s) UE (incluindo todas as alterações aplicáveis) e que foram usadas como base as respectivas normas e/ou especificações técnicas. (Download: [www.sick.com](#)).

Declarație de conformitate UE ro
Semnatarul, în calitate de reprezentant al producătorului numit mai jos, declară prin prezenta că produsul este în conformitate cu prevederile directivelor UE enumerate mai jos (inclusiv cu toate modificările aferente) și se întemeiază pe normele și/sau specificațiile tehnice corespunzătoare (download: [www.sick.com](#)).

EÚ vyhlásenie o zhode sk
Dolu podpísaný zástupca výrobcu týmto vyhlasuje, že výrobok je v súlade s ustanoveniami nasledujúcej (nasledujúcich) smernice (smerníc) EÚ (vrátane všetkých platných zmien) a že ako základ boli použité príslušné normy a/alebo technické špecifikácie (Download: [www.sick.com](#)).

Izjava EU o skladnosti sl
Podpisani predstavnik spodaj navedenega proizvajalca izjavljam, da je proizvod v skladu z določbami spodaj navedenih direktiv EU (vključno z vsemi ustreznimi spremembami) in da so osnova ustrezni standardi in/ali tehnične specifikacije (prenos: [www.sick.com](#)).

EU-försäkran om överensstämmelse sv
Undertecknad, som representerar nedanstående tillverkare, försäkras härmed att produkten överensstämmer med bestämmelserna i följande EU-direktiv (inklusive samtliga tillämpliga tillägg till dessa) och baseras på relevanta standarder och/eller tekniska specifikationer (nedladdning: [www.sick.com](#)).

SICK

Declaration

SICK Ident-No.: 9358282

Product:

WLL180T-L432S24

Verification of type examination requirements by
Company **SICK AG**
Certificate no. **IECEX TUR 21.0060X**

Issued inspection result

[Ex op is IIC T6 Gc]
-20°C < Ta < +50°C

(en) Declaration	de bg cs da el es et fi fr hr hu is it lt lv nl no pl pt ro sk sl sv	Erklärung Декларация Prohlášení Erklæring Δήλωση Declaración Deklaratsioon Ilmoitus Déclaration Izjava Nyilatkozat Yfirlýsing Dichiarazione Deklaracija Deklarācija Verklaring Deklarasjon Deklaracja Declaração Declarație Vyhlásenie Izjava Försäkran	(en) Certificate no.	de bg cs da el es et fi fr hr hu is it lt lv nl no pl pt ro sk sl sv	Zertifikatnr. Сертификат № Certifikát č. Certifikat nr. Αρ. Πιστοποιητικού N.º de certificado Sertifikaadi nr Todistusno. Certificat nr. Br. potvrde Tanúsítvány száma Vottoró nr. Certificato n. Sertifikato Nr. Sertifikata Nr. Nummer certificaat Sertifikat nr. Certifikat nr. Certificado n. Nr. certificat Certifikát č. Certifikát št. Certifikatnr.
(en) Verification of type examination requirements by	de bg cs da el es et fi fr hr hu is it lt lv nl no pl pt ro sk sl sv	Verifizierung der Anforderungen der Baumusterprüfung durchgeführt von Проверка според изискванията за изпитване на тип от Ověření požadavků předzkoušení typu provedl/a Verificering af kravene til EU-typeprøvninng udført af Επιλήθευση απαιτήσεων εξέτασης τύπου από Verificación de los requisitos de homologación de tipo a cargo de Tüübhindamise nõuetele vastavuse kontrolli läbiviija Tyyppitarkastuksen vaatimukset tarkistanut Critères de l'examen de type contrôlés par Zahtjeve tipskog ispitivanja provjerilo EU-típusvizsgálati követelmények felülvizsgálatát végezte Skilýrói fyrir gerðarþrófun sannprófuð af Verifica dei requisiti per esame del tipo eseguita da Típo tyrimų reikalavimų tikrinimas Típa pārbaudes prasību verifikāciju veica Verificatie eisen typeonderzoek door Verifisering av kravene til typeundersøkelse av Weryfikacja wymogów badania typu Verificação dos requisitos de exame de tipo feita por Verificarea cerințelor examinații de tip efectuată de Overenie požiadaviek typovej skúšky vykonal Preskus skladnosti EU tipa je opravil Verifering av typgodkännandekrav av	(en) Issued inspection result	de bg cs da el es et fi fr hr hu is it lt lv nl no pl pt ro sk sl sv	Ereiltes Inspektionsergebnis Издаден резултат от проверка Publikovaný výsledek zkoušky Udstedt inspektionsresultat Αποτέλεσμα επιθεώρησης που εκδόθηκε Resultado de inspección emitido Väljastatud ülevaatuse tulemus Annetult tarkastustulos Résultat d'inspection obtenu Izdani rezultat kontrole Kiadott vizsgálati eredmények Útgefin niðurstaða skoðunar Esito ispezione emesso Pateikti patikrinimo rezultatai Izdotaits pārbaudes rezultāts Resultaat van het onderzoek Publisert inspeksjonsresultat Wynik inspekcja Resultado de inspeção emitido Rezultatul publicat al inspecției Výsledok vydaney revízie Izdani rezultat pregleda Utfärdade inspektionsresultat
(en) Company	de bg cs da el es et fi fr hr hu is it lt lv nl no pl pt ro sk sl sv	Unternehmen Дружество Společnost Virksomhed Εταιρεία Empresa Ettevõte Yritys Société Društvo Vállalat Fyrirtæki Azienda Įmonė Uzņēmums Bedrijf Selskap Firma Empresa Compania Spoločnosť Podjetje Företag			

Relevant EU regulations/directives and harmonised standards:

Reference	EU regulations/directives and harmonised standards	Document-No.	Issued	SICK-ID-No.	Change notification
OJEU L 96	EMC DIRECTIVE 2014/30/EU	RL 2014/30/EU	2014 - 02 - 26	8606191	
OJEU L 174	RHHS DIRECTIVE 2011/65/EU	RL 2011/65/EU	2011 - 06 - 08	8606079	
	LVSCG - PROXIMINTY SWITCHES	EN IEC 60947-5-2	2020 - 03 - 01	8606545	
	TECHNICAL DOCUM. HAZARDOUS SUBSTANCES	EN IEC 63000	2018 - 12 - 01	8606483	
	EXPLOSIVE ATMOSPHERES, EQUIPMENT	IEC 60079-0	2017 - 12 - 01	8606374	
	EXPLOSIVE ATMOSPHERES, OPTIC. RADIATION	IEC 60079-28	2015 - 05 - 01	8606251	



UK Declaration of Conformity

Ident-No. : 9358477

The undersigned, representing the following manufacturer

SICK AG
Erwin-Sick-Straße 1
79183 Waldkirch
Germany

www.sick.com

herewith declares that this declaration of conformity is issued under the sole responsibility of the manufacturer.

The product

Type:	WLL180T-L432S24
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of this declaration is in conformity with the provisions of the following relevant UK Statutory Instruments (including all applicable amendments), and the respective standards and/or technical specifications have been used as a basis.

Waldkirch, 2022-03-07

i.v.

i. V. Davorin Jaksic
Head of Research & Development
Photoelectric Sensors & Fibers

i.v.

i. V. Joachim Schultis
Head of Operations Photoelectric Sensor
& Fibers

Relevant UK Statutory Instruments and designated standards:

UK Statutory Instruments and designated standards	Document-ID	Issued	SICK-ID-No.	Change notification
ELECTROMAGNETIC COMPATIBILITY REGULATIONS 2016	UK S.I. 2016 / 1091	2016 - 10 - 01	8606533	
EQUIPMENT AND PROTECTIVE SYSTEMS INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES REGULATIONS 2016	UK S.I. 2016 / 1107	2016 - 11 - 01	8606536	
THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT REGULATIONS 2012	UK S.I. 2012 / 3032	2012 - 12 - 01	8606541	
LVSCG - PROXIMITY SWITCHES	EN IEC 60947-5-2	2020 - 03 - 01	8606545	
TECHNICAL DOCUM. HAZARDOUS SUBSTANCES	EN IEC 63000	2018 - 12 - 01	8606483	
EXPLOSIVE ATMOSPHERES, EQUIPMENT	IEC 60079-0	2017 - 12 - 01	8606374	
EXPLOSIVE ATMOSPHERES, OPTIC. RADIATION	IEC 60079-28	2015 - 05 - 01	8606251	