

# OXC7-11170024

Kreismess-Sensor

Circle measurement sensor

Capteur de mesure du cercle

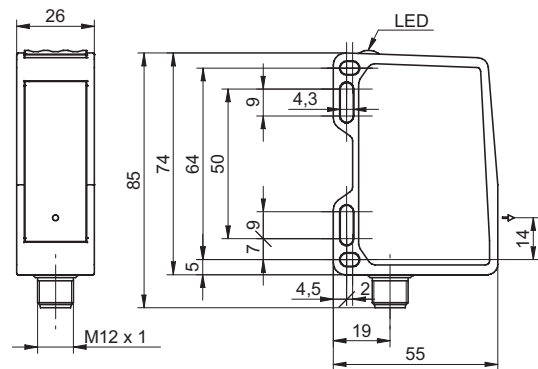


11170024



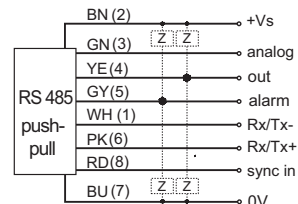
Baumer Electric AG · CH-8501 Frauenfeld  
Phone +41 (0)52 728 1122 · Fax +41 (0)52 728 1144

## Abmessungen Dimensions Dimensions

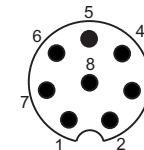


- Alle Maße in mm
- All dimensions in mm
- Toutes les dimensions en mm

## Elektrischer Anschluss Connection diagram Schéma de raccordement



- BN = Braun/brown/brun
- GN = Grün/green/vert
- YE = Gelb/yellow/jaune
- GY = Grau/grey/gris
- WH = Weiss/white/blanc
- PK = Rosa/pink/rose
- RD = Rot/red/rouge
- BU = Blau/blue/bleu



<sup>1)</sup> Class 2, UL 1310, see FAQ

- Vor dem Anschliessen des Sensors die Anlage spannungsfrei schalten.
- Disconnect power before connecting the sensor.
- Mettre l'installation hors tension avant le raccordement du détecteur.

<b>Canada</b> Baumer Inc. CA-Burlington, ON L7M 4B9 Phone +1 (1)905 335-8444	<b>Italy</b> Baumer Italia S.r.l. IT-20090 Assago, MI Phone +39 (0)2 45 70 60 65
<b>China</b> Baumer (China) Co., Ltd. CN-201612 Shanghai Phone +86 (0)21 6768 7095	<b>Singapore</b> Baumer (Singapore) Pte. Ltd. SG-339412 Singapore Phone +65 6396 4131
<b>Denmark</b> Baumer A/S DK-8210 Aarhus V Phone +45 (0)8931 7611	<b>Sweden</b> Baumer A/S SE-56133 Huskvarna Phone +46 (0)36 13 94 30
<b>France</b> Baumer SAS FR-74250 Fillinges Phone +33 (0)450 392 466	<b>Switzerland</b> Baumer Electric AG CH-8501 Frauenfeld Phone +41 (0)52 728 1313
<b>Germany</b> Baumer GmbH DE-61169 Friedberg Phone +49 (0)6031 60 07 0	<b>United Kingdom</b> Baumer Ltd. GB-Watchfield, Swindon, SN6 8TZ Phone +44 (0)1793 783 839
<b>India</b> Baumer India Private Limited IN-411038 Pune Phone +91 20 2528 6833/34	<b>USA</b> Baumer Ltd. US-Southington, CT 06489 Phone +1 (1)860 621-2121

Technische Daten	Technical data	Données techniques		
Messbereich (Breite)	75 ... 125 mm	measuring range (width) 75 ... 125 mm	Plage de mesure (Largeur)	75 ... 125 mm
Messbereich (Abstand)	150 ... 250 mm	measuring range (distance) 150 ... 250 mm	Plage de mesure (Distance)	150 ... 250 mm
Messfrequenz	170...450 Hz	measuring frequency 170...450 Hz	Fréquence de mesure	170...450 Hz
kleinster erfassbarer Durchmesser	30 mm	smallest detectable diameter 30 mm	le plus petite diamètre détectable	30 mm
grösster erfassbarer Durchmesser	130 mm	largest detectable diameter 130 mm	le plus grand diamètre détectable	130 mm
Betriebsspannungsbereich +Vs <sup>1)</sup>	15 ... 28 VDC	voltage supply range +Vs <sup>1)</sup> 15 ... 28 VDC	Plage de tension +Vs <sup>1)</sup>	15 ... 28 VDC
Stromaufnahme max. (ohne Last)	120 mA	current consumption max. (no load) 120 mA	Consommation max. (sans charge)	120 mA
Ausgangssignal	4 ... 20 mA / 0 ... 10 VDC	output signal 4 ... 20 mA / 0 ... 10 VDC	Signal de sortie	4 ... 20 mA / 0 ... 10 VDC
Schaltausgang	Gegentakt	switching output push-pull	Sortie commutation	push-pull
verpolungsfest	ja, Vs zu GND	reverse polarity protection yes, Vs to GND	Protégé contre inversion polarité	oui, Vs vers GND
kurzschlussfest	ja	short circuit protection yes	Protégé contre courts-circuits	oui
Fremdlichtsicherheit	< 25 kLux	ambient light immunity < 25 kLux	Insensibilité à la lumière ambiante	< 25 kLux
Arbeitstemperatur	-10 ... +50 °C	operating temperature -10 ... +50 °C	Température de fonctionnement	-10 ... +50 °C
Schutzart	IP 67	protection class IP 67	Classe de protection	IP 67

Technische Änderungen vorbehalten Technical specifications subject to change Sous réserve de modifications techniques

Allg. Sicherheitsbestimmungen  
General safety instructions  
Instructions générales de sécurité

**CLASS 1 LASER  
PRODUCT**

IEC 60825-1/2014  
Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

**VORSICHT**

Laserstrahl nie auf ein Auge richten.  
Es empfiehlt sich, den Strahl nicht ins Leere laufen zu lassen, sondern mit einem matten Blech oder Gegenstand zu stoppen.

**CAUTION**

Do not point the laser beam towards someone's eye. It is recommended to stop the beam by a mat object or metal sheet.

**ATTENTION**

Ne dirigez jamais le faisceau vers un oeil. Il est conseillé de ne pas laisser le faisceau se propager librement mais de l'arrêter au moyen d'un objet de surface mate.

1) Netzteil nach UL 1310, Class 2 oder externe Absicherung durch eine UL anerkannte oder gelistete Sicherung mit max. 30VAC/3A oder 24VDC/4A.  
Es wird ein 8-poliges, geschirmtes Anschlusskabel (Kabeldose) benötigt.

1) Voltage supply according UL 1310, Class2 or device shall be protected by an external R/C or listed fuse, rated max. 30VAC/3A or 24VDC/4A.  
Required is an 8-pin shielded cable (cable box).

1) L'alimentation utilisée, couvre la classe 2 selon la norme UL 1310 ou appareil protégé en externe par un circuit R/C ou fusible UL à 30VAC/3A ou 24VDC/4A maximum.  
Il s'agit d'un câble 8 broches blindé (décodeur) est nécessaire.

Display & Panel  
Display & Panel  
Affichage & panneau



**LED**  
Gelb/yellow/jaune = Schaltausgang  
Rot/red/rouge = Alarmausgang  
Grün/green/vert = Betriebsanzeige

**LED**  
switching output  
alarm output  
supply voltage

**LED**  
sortie de commutation  
sortie d'alarme  
tension d'alimentation

**Tasten**  
ESC = Zurück  
ESC > 2 Sek. = Hauptmenü  
UP = Hoch/Wert erhöhen  
DOWN = Runter/Wert verringern  
SET = OK  
SET 2 Sek. = Wert speichern

**Keys**  
back  
main menu  
up/increase value  
down/decrease value  
OK  
save value

**Touches**  
arrière  
menu principal  
vers le haut/augmenter la val.  
vers le bas/diminuer la valeur  
OK  
enregistrer la valeur

**Slide über alle 4 Tasten**  
----> = Freigabe Panel  
----< = Run-Modus

**Slide of all keys**  
release panel  
run-mode

**Slide sur toutes les touches**  
déverrouillage des touches  
mode run

Montage  
Mounting  
Montage

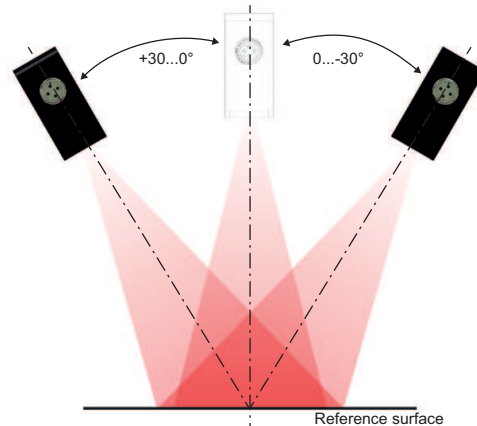
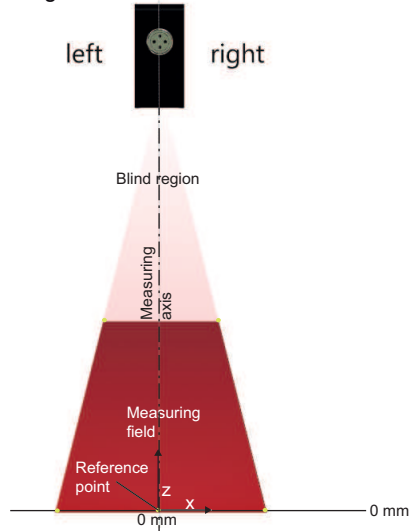
$\neq 90^\circ$

Keine Einstellung nötig  
No adjustment necessary  
Aucun réglage nécessaire

$\neq 90^\circ$

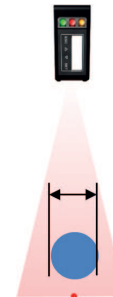
Nötige Funktion:  
FLEX MONTAGE  
Necessary function:  
FLEX MOUNT  
Fonction nécessaire:  
MONT FLEX

left right



Messtypen  
Measuring types  
Types de mesure

**DIAMETER**  
DIAMETER



X-CENTER



**X-Position**  
X-RIGHT



X-LEFT












**Z-Position**  
Z-CENTER



Z-TOP



Funktionsbaum  
Function tree  
Arbre de fonctions

LIVE MONITOR	CENTER	
		
MEAS TYPE	Diameter X-Center Z-Center X-Left X-Right Z-Top	
		
FLEX MOUNT	No Yes	TEACH REF THICKNESS REF
		
OBJECT	Bright Dark	
		
PRECISION	Standard High Very High	
		
FIELD OF VIEW	AUTO LIMIT LEFT LIMIT RIGHT HEIGHT OFFSET Set max values	Value in mm Value in mm Value in mm Value in mm
		
ANALOG OUT	ANALOG OUT CHARACTERISTIC SCALE START SCALE END Set max values	Current / Voltage Pos. slope / Neg. slope Value in mm Value in mm
		
DIGITAL OUT	DIGITAL OUT SWITCH POINT WINDOW P1 WINDOW P2 OUTPUT LEVEL Set max values	Point / Window Value in mm Value in mm Value in mm Active high / Active low
		
SYSTEM	RS485 BAUD RS485 ADDR DISPLAY LIGHT SENSOR INFO LANGUAGE RESET	38400 57600 115200 number OFF 5min OFF 10min OFF 20min Always ON SENSOR TYPE SERIAL NUM English Deutsch Inglese Français Factory set
		
SETTINGS	APPLY STORE SHOW ACTIVE SHOW SETTING 1 SHOW SETTING 2 SHOW SETTING 3	Setting 1 Setting 2 Setting 3 Setting 1 Setting 2 Setting 3 Values Values Values Values
	