

Q40

# Installation Sheet

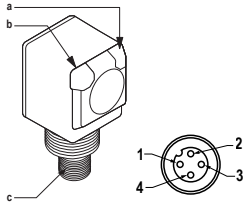
Einbauhinweise  
Consiglio d'installazione  
Conseils d'installation  
取扱説明書  
Folleto de instalación



TYPE	DESCRIPTION	BESCHREIBUNG	DESCRIZIONE	DESCRIPTION	検出距離・モード	DESCRIPCIÓN	
Q40-SP6-LP	6 m Polarized retro-reflective	6 m Reflexlichtsch. mil Polarisationsfilter	6 m Catarifrangenti con filtro polarizzatore	6 m Rétro-réfléctif avec filtre de polaris.	6m 偏光回帰反射形	6 m Retroreflex con filtro de polarización	
Q40-SP6-LP-Q							
Q40-SN6-LP							
Q40-SN6-LP-Q							
Q40-SP6-FF200	200 mm Fixed-field	200 mm Reflexionslichttaster mit Hintergrundausblendung	200 mm A soppressione di sfondo	200 mm Suppression de l'arrière-plan	200 mm 距離設定反射形	200 mm Supresión de fondo	
Q40-SP6-FF200-Q							
Q40-SN6-FF200							
Q40-SN6-FF200-Q							
Q40-SP6-FF400	400 mm Fixed-field	400 mm Reflexionslichttaste mit Hintergrundausblendung	400 mm A soppressione di sfondo	400 mm Suppression de l'arrière-plan	400 mm 距離設定反射形	400 mm Supresión de fondo	
Q40-SP6-FF400-Q							
Q40-SN6-FF400							
Q40-SN6-FF400-Q							
Q40-6-E	60 m Opposed emitter	60 m Einweglichtschranke Sender	60 m Barriera emettitori	60 m Barrière émetteur	60 m 透過形 投光器	60 m Barrera emisor	
Q40-SP6-R	Opposed receiver	Einweglichtschranke Empfänger	Barriera ricevitori	Barrière récepteur	透過形 受光器	Barrera receptor	
Q40-SN6-R							
Q40-6-E-Q	60 m Opposed emitter	60 m Einweglichtschranke Sender	60 m Barriera emettitori	60 m Barrière émetteur	60 m 透過形 投光器	60 m Barrera emisor	
Q40-SP6-R-Q	Opposed receiver	Einweglichtschranke Empfänger	Barriera ricevitori	Barrière récepteur	透過形 受光器	Barrera receptor	
Q40-SN6-R-Q							

SPECIFICATION	CHARAKTERISTIKEN	SPECIFICHE	CARACTÉRISTIQUES	仕様	CARACTERÍSTICAS	
Supply Voltage	Betriebsspannung	Tensione di alimentazione	Tension d'alimentation	電源電圧	Tensión de alimentación	10...30 VDC
Load Current (max.)	Bemessungsbetriebsstrom	Corrente a carico continuo	Courant de charge	負荷電流	Corriente de carga continua	150 mA
Enclosure	Schutzart	Classe di protezione	Mode de protection	保護構造	Tipo de protección	IP67
Circuit Protection*	Schutzschaltungen	Protezione	Protection	保護回路	Protección	A+B *
Temperature Rating	Zul. Umgebungstemperatur	Temperature di funzionamento	Température ambiante admissible	使用周囲温度範囲	Intervalo de temperatura	-40 °C...+70 °C (-40 °F to +158 °F)
*Reverse polarity (A)	*Verpolschutz (A)	*Inversione di polarità (A)	*Inversion de polarité (A)	*逆配 (A)	*Inversión de polaridad (A)	
*Short-circuit (B)	*Kurzschlusschutz (B)	*Cortocircuito (B)	*Courts-circuits (B)	*短絡 (B)	*Cortocircuitos (B)	

PACKING LIST	LIEFERUMFANG	PACKING LIST	LIVRAISON	同梱品リスト	ALBARAN
Sensor	Sensor	Sensore	Détecteur	センサ	Sensor
Data sheet	Datenblatt	Data sheet	Notice technique	データシート	Hoja de características
Screws M30, AF36	Montagemutter M30, SW36	Dado di fissaggio M30, CH36	Ecrous de montage M30, clé 36	締付ナット M30x1	Tuerca de montaje M30, CH



<b>a</b>	Yellow LED - output indicator	gelbe LED - Ausgangsanzeige	LED giallo - indicazione dell'uscita	LED jaune - visualisation de la sortie	受光量表示 (黄)	LED indicador amarillo - indicador de la salida
<b>b</b>	Green LED - power indicator	grüne LED - Betriebsspannung	LED verde - tensione di alimentazione	LED verte - tension de service	電源表示 (緑 ; 過負荷時点滅)	LED indicador verde - alimentación
<b>c</b>	Cable or Quick-disconnect (QD)	Kabel oder eurofast steckverbinder	Cavo o connettore eurofast	Cable ou connecteur eurofast	ケーブルまたはQDコネクタ	Cable o conector eurofast

**WARNING**  
Not To Be Used for Personnel Protection  
Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

**WARNUNG**  
Darf nicht für den Personenschutz verwendet werden  
Dieses Gerät darf nicht als Sensor zum Personenschutz eingesetzt werden. Eine Nichtbeachtung kann schwere Verletzungen oder Tod zur Folge haben. Dieses Gerät verfügt nicht über die selbstüberwachenden redundanten Schaltungen, die für Personenschutz-Anwendungen erforderlich sind. Ein Sensorausfall oder Defekt kann zu unvorhersehbar Schalterhalten des Ausgangs führen.

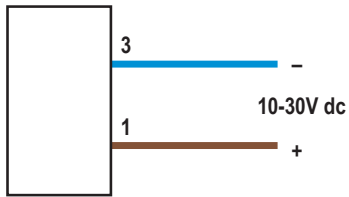
**AVVERTENZA**  
Non usare per la protezione del personale  
Non usare questo dispositivo come dispositivo di rilevamento per la protezione del personale. Il mancato rispetto di questo requisito può comportare gravi lesioni fisiche o morte. Questo dispositivo non è dotato dei circuiti di autodiagnostica ridondanti necessari per permettere l'uso in applicazioni di sicurezza del personale. Pertanto, guasti o cattivi funzionamenti del sensore possono provocare variazioni del segnale in uscita.

**AVERTISSEMENT**  
A ne pas utiliser en guise de protection individuelle  
Ce produit ne doit pas être utilisé en tant que système de détection destiné à la protection individuelle. Une utilisation dans de telles conditions pourrait entraîner des dommages corporels graves, voire mortels. Ce produit n'est pas équipé de circuit redondant d'autodiagnostic nécessaire pour être utilisé dans des applications de protection personnelle. Une panne du capteur ou un mauvais fonctionnement peut entraîner l'activation ou la désactivation de la sortie.

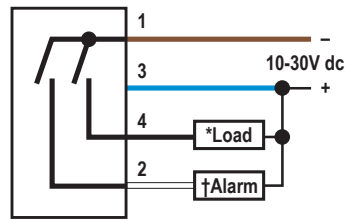
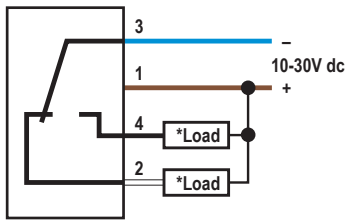
**警告**  
人身防護用に使用しないでください  
本製品を人身保護用の検出装置として使用しないでください。重大なけがや死亡事故に繋がる危険があります。本製品は、安全関連のアプリケーションに使用する上で最低限必要な二重化回路と自己診断機能を内蔵していません。本製品の故障または誤動作により、出力がONになる場合とOFFになる場合のどちらの場合もあります。

**ADVERTENCIA**  
No se debe utilizar como protección personal  
No utilice nunca este dispositivo como dispositivo de detección con fines de protección personal. De ser así, podrían producirse lesiones graves o incluso la muerte. Este dispositivo no incluye los circuitos redundantes de autodiagnostico necesarios para permitir su uso en aplicaciones de seguridad personal. Un error de funcionamiento o un fallo del sensor pueden provocar una situación de salida del sensor con corriente o sin corriente.

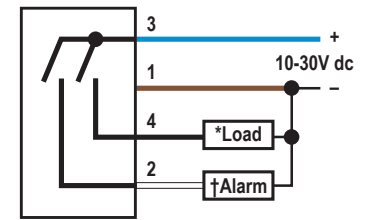
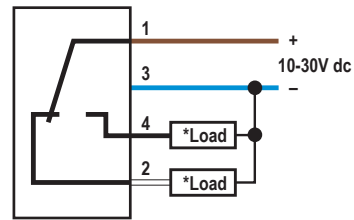
Q40-6... 投光器側配線



Q40-SN6...



Q40-SP6...



	CONNECTIONS	ANSCHLUSS	CONNESSIONE	RACCORDAMENT	配線	CONEXIONES
1	Brown	braun	marrone	brun	茶	marrón
2	White	weiß	bianco	blanc	白	blanco
3	Blue	blau	blu	bleu	青	azul
4	Black	schwarz	nero	noir	黒	negro
*LOAD	Load	Last	Carico	Charge	負荷	Carga
†ALARM	Alarm	Alarm	Allarme	Alarme	アラーム	Alarma

**Required Overcurrent Protection**

**⚠ WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to [www.bannerengineering.com](http://www.bannerengineering.com).

**Erforderlicher Überstromschutz**

**⚠ WARNUNG:** Die elektrischen Anschlüsse müssen von qualifizierten Personen unter Beachtung der örtlichen und nationalen Gesetze und Vorschriften für elektrische Anschlüsse verbunden werden.

Überstromschutz ist erforderlich, dieser muss von der Anwendung des Endprodukts gemäß der angegebenen Tabelle bereitgestellt werden.

Überstromschutz kann durch externe Sicherung oder über ein strombegrenzendes Netzteil der Klasse 2 eingerichtet werden.

Versorgungskabelleitungen < 24 AWG müssen ungespleißt sein.

Weiteren Produktsupport erhalten Sie unter [www.bannerengineering.com](http://www.bannerengineering.com).

**Protezione da sovracorrente richiesta**

**⚠ AVVERTENZA:** I collegamenti elettrici devono essere eseguiti da personale qualificato in conformità alle norme e ai regolamenti vigenti a livello nazionale in materia di elettricità.

L'applicazione finale deve prevedere una protezione da sovracorrente come indicato nella tabella fornita.

La protezione da sovracorrente può essere assicurata da un fusibile esterno o mediante limitazione di corrente, con alimentazione classe II.

I conduttori di alimentazione con sezione < 24 AWG non devono essere giuntati.

Per ulteriore supporto andare all'indirizzo [www.bannerengineering.com](http://www.bannerengineering.com).

**Protection contre la surintensité requise**

**⚠ AVERTISSEMENT:** Les raccordements électriques doivent être effectués par du personnel qualifié conformément aux réglementations et codes électriques nationaux et locaux.

Une protection de surintensité doit être fournie par l'installation du produit final, conformément au tableau fourni.

Il est possible de fournir une protection de surintensité par un fusible externe ou par une alimentation de classe 2, avec limitation de courant.

Il ne faut pas raccorder des câbles d'alimentation d'un diamètre inférieur à 24 AWG.

Pour obtenir un support produit supplémentaire, rendez-vous sur le site [www.bannerengineering.com](http://www.bannerengineering.com).

**必要な過電流保護**

**⚠ 警告:** 有資格者が地域、および全国の電気工事規定、規制に準拠し、電気接続を行ってください。

最終製品の用途により付属の表に従い、過電流保護を提供しなければなりません。

過電流保護は、外付けヒューズ、または電流制限クラス2電源で提供することができます。

24 AWG未満の電源配線リードは、接続してはなりません。

製品サポートの詳細は、[www.bannerengineering.com](http://www.bannerengineering.com)をご覧ください。

Supply Wiring (AWG)	Required Overcurrent Protection
20	5.0 Amps
22	3.0 Amps
24	2.0 Amps
26	1.0 Amps
28	0.8 Amps
30	0.5 Amps

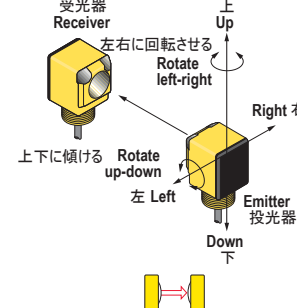
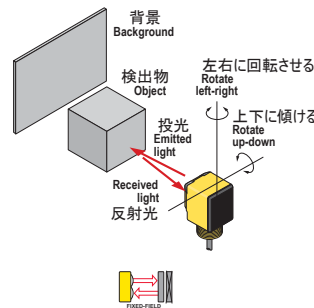
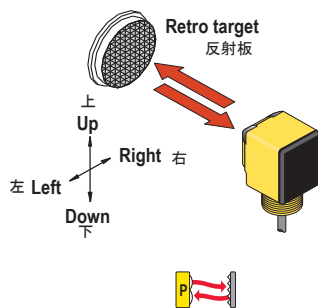
Versorgungskabel (AWG)	Erforderlicher Überstromschutz
20	5.0 A
22	3.0 A
24	2.0 A
26	1.0 A
28	0.8 A
30	0.5 A

Cavo di alimentazione (AWG)	Protezione da sovracorrente richiesta
20	5.0 A
22	3.0 A
24	2.0 A
26	1.0 A
28	0.8 A
30	0.5 A

Câble d'alimentation (AWG)	Protection contre la surintensité requise
20	5.0 A
22	3.0 A
24	2.0 A
26	1.0 A
28	0.8 A
30	0.5 A

電源配線 (AWG)	必要な過電流保護 (アンペア)
20	5.0 アンペア
22	3.0 アンペア
24	2.0 アンペア
26	1.0 アンペア
28	0.8 アンペア
30	0.5 アンペア

**ALIGNMENT JUSTAGE ALLINEAMENTO REGLAGE 光軸調整 ALINEACION**



**Protección de sobrecorriente necesaria**

**⚠ ADVERTENCIA:** Las conexiones eléctricas deben ser realizadas por personal cualificado de acuerdo con las normativas y códigos eléctricos locales y nacionales.

Se debe proporcionar protección de sobrecorriente en la aplicación del producto final tal como se indica en esta tabla.

La protección de sobrecorriente se puede proporcionar con fusibles externos o con una fuente de alimentación de clase 2 con limitación de corriente.

Los cables de suministro < 24 AWG no se pueden empalmar.

Para obtener más información sobre el producto, visite <http://www.bannerengineering.com>.

Cableado de suministro (AWG)	Protección de sobrecorriente necesaria
20	5.0 A
22	3.0 A
24	2.0 A
26	1.0 A
28	0.8 A
30	0.5 A

**Banner Engineering Corp. Limited Warranty**

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

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