



Product Service

CERTIFICATE

No. Z10 024820 0082 Rev. 00

Parameters:	Power Supply:	24VDC \pm 20%
	Power Consumption:	max. 2W (Emitter), max. 2W (Receiver)
	Output:	pnp, max. 500mA
	Operating temperature:	0°C to +55°C
	Working range:	Vision V xxx x-L: 0-6 m Vision V xxx x-H: 1-16 m Vision VX xxx x: 0-18 m Vision VXL x xxx x: 0.3 m – 8 m Vision VXL x 303 T: 0.3 m – 8 m Vision MXL x xxx x: 0.3 m – 8 m
	Resolution:	Vision V x xxx x-x, Vision VX x-xxx x [mm]: 20, 30, 40, 50, 90 Vision VXL x xxx x [mm]: 30, 40, 50, 90 Vision VXL x 303 T [mm]: 30 Vision MXL x xxx x [mm]: 30, 40
	Beam Distance:	Vision V x x B x, Vision VX x-x B, Vision VXL x x B, Vision MXL x x B [mm]: 300, 400, 500
	Protection class:	IP65
Tested according to:		2006/42/EC EN 61496-1:2013 (Type 2) EN 61496-2:2013 (Type 2) EN ISO 13849-1:2015 (Cat.2, PL c) EN 62061:2005/A2:2015 (SILCL 1)

Factory(ies): 024820

Model(s): **Vision V x xxx x-x, Vision VX x-xxx x,
Vision V x x B x, Vision VX x-x B,
Vision VX x-xxx x x, Vision VX x-x B x,
(Master/Slave)
Vision VXL x xxx x,
Vision VXL x 303T, Vision VXL x x B
Vision MXL x xxx x, Vision MXL x x B
For nomenclature see next page**



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Nomenclature of Vision-Series

VISION

Vision V a bbb c - d

with:

a	Type	
	E	Emitter
	R	Receiver
bbb	Protected Area	
	15	160 mm
	30	310 mm
	45	460 mm
	60	610 mm
	75	760 mm
	90	910 mm
	105	1060 mm
	120	1210 mm
	135	1360 mm
	150	1510 mm
165	1660 mm	
180	1810 mm	
c	Resolution	
	2	20 mm
	3	30 mm
	4	40 mm
	5	50 mm
	9	90 mm
d	Range	
	H	High Range
	L	Low Range

Vision V a b B c

with:

a	Type	
	E	Emitter
	R	Receiver
bbb	Number of Beams	
	2	2 Beams
	3	3 Beams

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	4	4 Beams
d	Range	
	H	High Range
	L	Low Range

VISION VX

Vision VX a - bbb c

with:

a	Type	
	E	Emitter
	R	Receiver

bbb	Protected Area	
	15	160 mm
	30	310 mm
	45	460 mm
	60	610 mm
	75	760 mm
	90	910 mm
	105	1060 mm
	120	1210 mm
	135	1360 mm
	150	1510 mm
	165	1660 mm
	180	1810 mm

c	Resolution	
	2	20 mm
	3	30 mm
	4	40 mm
	5	50 mm
	9	90 mm

Vision VX a - b B

with:

a	Type	
	E	Emitter
	R	Receiver

bbb	Number of Beams	
	2	2 Beams
	3	3 Beams
	4	4 Beams

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VISION VX MASTER/SLAVE

Vision VX a - bbb c d

with:

a	Type	
	E	Emitter
	R	Receiver

bbb	Protected Area	
	15	160 mm
	30	310 mm
	45	460 mm
	60	610 mm
	75	760 mm
	90	910 mm
	105	1060 mm
	120	1210 mm
	135	1360 mm
	150	1510 mm
	165	1660 mm
180	1810 mm	

c	Resolution	
	2	20 mm
	3	30 mm
	4	40 mm
	5	50 mm
	9	90 mm

d	Function	
	M	Master
	S	Slave

Vision VX a - b B c

with:

a	Type	
	E	Emitter
	R	Receiver

bbb	Number of Beams	
	2	2 Beams
	3	3 Beams
	4	4 Beams

d	Range	
	M	Master
	S	Slave

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VISION VXL

Vision VXL a bbb c - d

with:

a	Type	
	E	Emitter
	R	Receiver
bbb	Protected Area	
	15	160 mm
	30	310 mm
	45	460 mm
	60	610 mm
	75	760 mm
	90	910 mm
	105	1060 mm
	120	1210 mm
c	Resolution	
	3	30 mm
	4	40 mm

Vision VXL a 303 T

with:

a	Type	
	E	Emitter
	R	Receiver

Vision VXL a b B

with:

a	Type	
	E	Emitter
	R	Receiver
bbb	Number of Beams	
	2	2 Beams (distance 500 mm)
	3	3 Beams (distance 400 mm)
	4	4 Beams (distance 300 mm)

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VISION MXL

Vision MXL a bbb c

with:

a	Type	
	E	Emitter
	R	Receiver

bbb	Protected Area	
	15	160 mm
	30	310 mm
	45	460 mm
	60	610 mm
	75	760 mm
	90	910 mm
	105	1060 mm
120	1210 mm	

c	Resolution	
	3	30mm
	4	40mm

Vision MXL a b B

with:

a	Type	
	E	Emitter
	R	Receiver

bbb	Number of Beams	
	2	2 Beams (distance 500 mm)
	3	3 Beams (distance 400 mm)
	4	4 Beams (distance 300 mm)

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Zertifizierungsvertrag

Grundlage für die Zertifikatserteilung ist die Prüf- und Zertifizierungsordnung von TÜV SÜD Product Service.

Mit Erhalt des Zertifikates erkennt der Zertifikatsinhaber die jeweils gültige Fassung der Prüf- und Zertifizierungsordnung an (www.tuev-sued.de/ps_regulations) und wird somit Partner im Zertifiziersystem von TÜV SÜD Product Service.

Certification contract

Certification is based on the TÜV SÜD Product Service Testing and Certification Regulations. On receipt of the certificate the certificate holder agrees to the current version of the Testing and Certification Regulations (www.tuv-sud.com/ps_regulations) and thus becomes partner in the TÜV SÜD Product Service Certification System.

认证合约

认证基于 TÜV SÜD 产品服务《测试及认证准则》。获得证书即表明证书持有者接受当前版本的《测试及认证准则》（见 www.tuv-sud.com/ps_regulations）并成为 TÜV SÜD 产品服务认证系统内的合作伙伴。

認証契約

認証は TÜV SÜD Product Service の試験認証規約に基づく。認証書保持者は認証書を受領することにより最新の試験認証規約(www.tuv-sud.com/ps_regulations)に同意したものとします。その結果、TÜV SÜD Product Service 認証システムのパートナーとなる。

Contrato de certificação

A certificação se baseia nos Regulamentos de Testes e Certificação do Grupo TÜV SÜD. Ao receber o certificado, o Fornecedor, titular do certificado concorda com a versão atual dos Regulamentos de Testes e Certificação do Grupo TÜV SÜD (www.tuv-sud.com/ps_regulations) e assim, torna-se parceiro no Sistema de Certificação de Produtos e Serviços TÜV SÜD.

Prinzipielle Voraussetzung für die Gültigkeit des Zertifikates:

- Gültigkeit der zitierten normativen Prüfgrundlage(n) ist gegeben und zusätzlich bei Zertifikaten mit Berechtigung zur Verwendung eines Prüfzeichens bzw. bei Zertifikaten für QM-Systeme:
- Voraussetzungen für vorschriftsmäßige Fertigung werden eingehalten.
- Die Fertigungs- bzw. Betriebsstätten werden regelmäßig überwacht.

Requirements for the validity of the certificate in principle:

- Validity of the quoted test standard(s) In addition, for certificates with the right to use a certification mark and for QM certificates:
- Conditions for an adequate manufacturing are maintained
- Regular surveillance of the facility is performed

维持证书有效性的原则要求：

- 认证所依据标准的有效性
- 此外，对于授权可使用认证标志的证书和质量管理体系证书：
- 保持充分的生产条件
 - 生产场地通过定期的监督

認証書の有効性に関する原則的な要求事項

- 引用している試験規格が有効である
- さらに認証マークの使用を許諾された認証書や品質マネジメント認証書は：
- 適切な製造の条件を維持している
 - 定期的な工場監査を実施している

Requisitos para a validade do certificado (em princípio):

- Validade da(s) norma(s) de ensaio(s) referenciada(s).
- Adicionalmente, para os certificados com o direito ao uso da marca de certificação e para certificados de SG:
- Condições de fabricação adequada estão mantidas.
 - Auditoria de monitoração realizada regularmente.