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		LARS		Rd / PO Box 467 Olifantsfontein 1665			
Rea	Explosion Preve No: 1999/027771/0		Tel: +2 Fax: +2 E-mail: <u>admin-mgr@</u>	27 (11) 316 4601 27 (11) 316 5670 @explolabs.co.za			
IN		OVERNMENT APPROVED TEST 108: "REGULATORY REQUIREMENTS FOR E		RATUS"			
		IA CERTIFICATE	Date Issued:	13 Sep 2024			
			*Expiry date:	13 Sep 2027 Page 1 of 5			
Ex – Type Certificate	e Examination Number:	n Certificate S-XPL/10.0384 X		Issue: 7			
Equipment Model / Ty Applicant:		SWING61(*).D********* and SWIN Vega Instruments (Pty) Ltd PO Box 692	Vibrating level switch VEGASWING SWING61(*).D********* and SWING63(*).D******** Vega Instruments (Pty) Ltd				
Manufactur Serial No:	rer:	Wilgeheuwels 1736 VEGA Grieshaber KG All serial numbers imported betwe					
		numbers covered by a valid report Supplied by Vega Instruments (Pty)		ication mark.			
		Identified by Inspection Authori S-XPL/10.0384 X					
Refer to cla	ause 1, for Ex	xplolabs file number XPL/11181/10.03 <u>Rating)"</u> , having been examined and African National Standards.					
	9-0: 2019 Ed 6 D: 2017 Ed 7	Explosive atmospheres Part 0: Ec	quipment — General require	ments			
	9-1: 2015 Ed 5 1: 2014 Ed 7	Explosive atmospheres Part 1 enclosures "d"	: Equipment protection b	y flameproof			
IEC/SANS 60079-26: 2021 Explosive atmospheres – Part 26: Equipment with equipment protection level (EPL) Ga							
Risk of igniti	on provided:						
Protection afforded	Equipment Protection Level (EPL) Group	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)			
Very high	Ga Group II	Two independent means of protection or safe even when two faults occur independently of each other		T6 (85°C) T2 (300°C)			
High	Gb Group II	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains	T6 (85°C) T2 (300°C)			
This certificate supersedes all previous documents bearing the reference no XPL/11181/10.0384 issue 6.							
		DOCUMENT No: XF This document is an E		2024 REV: 8			
EPIOLARS	ETHOLARS EXPLO	LARS CEPTIOLARS CEPTIOLARS CEPTIOLARS	A appreted as noted in the electronic system.	ILARS EXPLOIARS			

	f the Vibrating le T2 Ga/Gb or	vel swi	tch VEG	ASWIN	G shall i	nclude th	ne follov	wing:	
Ex db IIC T6	T2 Gb								
Vibrating level are used for de	switch VEGAS	WING, ol of a f	type co luid leve	de SW I.	ING61(*)).D******	*** and	SWING	63(*).D**
Ambient tempe	erature range -40	0°C to −	+70°C.						
Nomenclature	•								
SWING61/63	(*) .	D*	***	*	*	*	*	*	
A	В	С	D	Е	F	G	Н	I	
Designation	Explanation	l v	alue	Expl	anation				
A	Basic Model		NG61/63	Vibra	ating leve				
В	OEM		(*) ¹⁾		e reserve				
			Х					T2 Ga/Gt	
	Type of		A ¹⁾	+ W			J 16	T2 Ga/Gb	o, GD (A
С	Approval					Ex db IIC	с т6т	2 Ga/Gb	. Gb (A
			M1)	Ship	approva	al)			
			I				/Gb, Gb	o (IECEx	CoC)
			GBV		ad G3.4				
			NBV KAN	Con	ad 3/4 N	IN			
					e np 1"				
			REN		ed nut				
			AV		enic fittir	ng			
			ΓΑΝ	Varia		~			
	_		DAV) flange				
	Process		RRP	SMS					
D	fitting / Material		RSV SBP		gelok VC NEUMO				
	Wateria		RUP		MO W5		101		
			SMP		Il flange				
			RIP		old conne				
			RNP			d dia. 25	X46 mr	m, G1 1/4	1
			_GP	DB5	-				
			DBP STP		fitting ar flange				
		⊢ `	***				gs acc.	(to indus	try stan
	Process		Х	With	out temp	erature	adapter	r / -40 °C	to +150
E	temperature		т					40 °C to	
			M					40 °C to	
	Housing							M20 X 1.5 th specia	
_	(Material) /		7	X 1.		ingio not	ung wi	ai specie	
F	Cable entry		U	Alun	ninium si				
	size		4			ngle hou	ising wi	th specia	l color /
				NPT		fan de t		El a atal	
			Z C					Electrica Electrica	
			R					Electrica	
G	Electronics		Т	Elec	tronics T	, for det	ails see	Electrica	al data
			V	Elec	tronics V	, for det	ails see	Electrica	al data
			N					Electrica	
		1	W	Elec	tronics V	v, tor de	tails see	e Electric	al data

secies all previous obcunites ideaming the releasance in AAD-11 Tool 10,000 issue of DOCUMENT No: XPL0213 RELEASE DATE: 30/01/2024 REV: 8 This document is an Exploiteds Controlled Document – Responsibility fails on personnel to ensure correct revision is applied as noted in the electronic system.

Approver Approver

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ANNEX TO CERTIFICATE NO S-XPL/10.0384 X PAGE 3 OF 5									
	Designation	Explanation	Value	Explanation	8				
	Н	Switching	Х	Standard]				
	п	point ¹⁾	L	With extended switching point	6				
		Measurement	V	Stainless steel	ALS:				
		loop	F	Foil	4				
	I	designation label material	(*)	Without label	MON				

1): means that it is not relevant for type of protection

Thermal data

Process temperature range:

-40 °C to +150 °C without temperature adapter -40 °C to +193 °C with a temperature adapter of 119 mm

-40 °C to +250 °C with a temperature adapter of 156 mm

-40°C to +250°C with a temperature adapter of 150 min							
The temperature class depends on the ambient temperature and maximum process temperature as shown in the table below.							
Maximum Process temperature	Temperature class	Ambient temperature	2				
-40 °C to +78 °C	T6	-40 °C to +70 °C	8				
-40 °C to +93 °C	T5	-40 °C to +70 °C	1 🧟				
-40 °C to +128 °C	T4	-40 °C to +50 °C	5				
-40 °C to +150 °C	T3	-40 °C to +40 °C					
-40 °C to +193 °C	T3	-40 °C to +70 °C					
-40 °C to +250 °C	T2	-40 °C to +70 °C	5				

Electrical data

VEGASWING SWING6*(*).D*****Z** (Electronics Z)
Supply: 12 to 36 Vdc, max 0.6 W
Output: 1.8 to 16 mA
VEGASWING SWING6*(*).D*****C** (Electronics C)
Supply: 20 to 253 Vdc or 20 to 253 Vac 50/60 Hz, max. 1 W
Output: max. 400 mA
VEGASWING SWING6*(*).D*****R** (Electronics R)
Supply: 20 to 72 Vdc or 20 to 253 Vac 50/60 Hz, max. 1.3 W
Output: 2 change-over contacts, floating max. 5 A
VEGASWING SWING6*(*).D*****T** (Electronics T)
Supply: 10 to 55 Vdc, max. 1 W
Output: Transistor, max. 400 mA
VEGASWING SWING6*(*).D*****V** (Electronics V)
Supply: 10 to 55 Vdc, max. 1 W
Output: Transistor, max. 400 mA (Response time 250 ms)
VEGASWING SWING6*(*).D*****N** (Electronics N)
Supply: NAMUR, max. 30 mW
VEGASWING SWING6*(*).D*****W** (Electronics W)
Supply: NAMUR, max. 30 mW (Response time 250 ms)

This certificate superse reference no XPL/11181/10.0384 Issue 6. all pr ring the DOCUMENT No: XPL0213 RELEASE DATE: 30/01/2024 REV: 8 This document is an Explolabs Controlled Document – Responsibility falls on personnel re correct revision is applied as noted in the electro nic syst

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3	proues Approues
2	ANNEX TO CERTIFICATE NO S-XPL/10.0384 X PAGE 4 OF 5
SMOUR	- Assessed IEC 60079-0 Ed. 7 and IEC 60079-26 Ed. 4
SIMOLUS	- Minor constructional changes ATEX Details of certificate changes Issue 1 – 200594300 initial certificate
normal among among among among among	Issue 2 – 2100394500 reassessment to updated standards Issue 3 – 211439200 reassessment to updated standards Issue 4 – 510005200 reassessment to updated standards, electronics type "V" and "W" added, revision of the electrical data and thermal data.
-	Issue 5 – 225610400 assessment per IEC 60079-0: 2018 and IEC 60079-26: 2021, extension with Gb version, change of equipment type code, minor constructional changes.
SMOUNE	Based on the following documentation: IECEx KEM 08.0031X Issue No.: 2 and/or KEMA 01 ATEX 2026 Issue No.: 5
2.	INSTALLATION INSTRUCTIONS It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.
SIVIO	The instructions provided with the product shall be followed in detail to assure safe operation.
∛ 3.	SPECIAL CONDITIONS FOR SAFE USE (denoted by "X" after certificate number) Sensors and electronic housing covered with a non-conductive material are only allowed when electrostatic charging is avoided, see instructions.
*	For thermal data see clause 1 of this certificate.
MOIN	The flameproof joints are not intended to be repaired.
STOLES 4	Measured capacitance of the unearthed stainless steel measuring point identification plate: - Plate dimensions 45 mm x 23 mm (standard): 21 pF - Plate dimensions 100 mm x 30 mm: 52 pF - Plate dimensions 73 mm x 47 mm: 61 pF
4.	SCHEDULE OF LIMITATIONS (denoted by "U" after certificate number) None.
5.	None. CONDITIONS OF CERTIFICATION All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.
SIMOURS	
STUDINE	
SINOLIS	
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STUDINE	This certificate supersedes all previous documents bearing the reference no XPL/11181/10.0384 Issue 6. DOCUMENT No: XPL0213 RELEASE DATE: 30/01/2024 REV: 8 This document is an Exploited sonted in the electronic system. ensure correct revision is applied as noted in the electronic system.
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	AN	NEX TO CERTIFICATE	NO S-XPL/10.0384 X	PAGE 5 OF 5 💈
@ 6.	MARKING			
3	The following (or s Supplier	: Vega Instruments (Pty)	be clearly and permanently n	narked on all units:
Ĕ.	Manufacturer	: VEGA Grieshaber KG	Liu	Ĕ
8	Equipment	: Vibrating level switch VI		~
NO	Model/Type	: SWING61(*).D********	and SWING63(*).D********	
5	Serial No. Ex Rating	: : Ex db IIC T6T2 Ga/Gt	or	
8	LX Italing	Ex db IIC T6T2 Ga/Gi	0	
N O	IA Certificate No	: S-XPL/10.0384 X		PIOLA
Th	s certification indicates compliance t the apparatus is used as relevant	with R10.1 of the Mines Health and	Safety Act and/or EMR 9(2) of the Occupa	tional Health and Safety Act, provided 🙀
📜 i)	SANS 10086 and IEC/SAI	NS 61241-14 requirements as applicate	ble;	
jii)	Any conditions mentioned Any relevant requirements	in the above report; and codes of practice enforced in t	erms of the Mine Health and Safety Act o	r Occupational Health and Safety Act;
	and Any restrictions and cond	tions enforced by the Chief Inspecto	r of Mines or the Principal Inspector or the	e Chief Inspector: Occupational Health 🧟
30	and Safety.	ces all previous version of the certific		
vi)	* - Only covers equipment	Imported between the "Issued" and "	Expire" dates.	. duning the could described of the DA
	Certification (issued for yo	ur equipment) and a new certificate is	te for your equipment manufacturer expire not submitted the existing IA Certification	will then be cancelled. It is thus the
N	client's responsibility to all	vays submit the updated and valid Q	AN certificate(s) to Explolabs (Pty) Ltd	2
5	Reviewed by:			81
2	AN			
3	SIII -			5
8	Dawens			
3	C Lourens			
2	Technical Specia	list		
e	EXPLOLABS EXI	PLOSION PREVENTION	SERVICES	velalaha (Dhi) I talahali pat ka liakia far
2	any losses or damages su	stained on account of any failure or o	out the written approval of the company E mission to properly perform our duties in te	erms of any contract undertaken by us.
2	the express written waiv	er of our managing director. By	any contract undertaken by us; notwithstar marking the equipment in accordance v	with the documentation/standard, the
@			ent has been constructed in accordance v ts have been successfully completed an	
¥	documentation and stand kept on file at Explolabs (F	ard(s). The contents of electronic re	ports/certificates cannot be guaranteed.	Original certification documents will be
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5		D	OCUMENT No: XPL0213 RELEASE	DATE: 30/01/2024 REV: 8 📡
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