



Mining And Surface Certification (Pty) Ltd

2015/021934/07



Certificate Number:

MASC M/17-0943

Issue:

11 May 2017

Expire:

11 May 2020

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IA – CERTIFICATE

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

Ex – Type Examination Certificate number:	MASC M/17-0943
Equipment:	Conveyer Belt Misalignment Switch (SRT) Safety Cable Pull Switch (SRS)
Serial No:	All units covered by a valid batch report / accepted product certification mark
Applicant:	DRH Components (Pty) Ltd
Address:	22 Assagay Road Hillcrest Pinetown 3610 South Africa
Manufacturer:	Shanghai Fine Automation Co., Ltd
Address:	No.451 DuHui road MinHang District Shanghai

DESCRIPTION:

This certificate covers the following types:
SRS and SRT...

SRS:

The belt conveyor safety cable pull switch are designed to provide a switching system to isolate the power to a conveyor system and other equivalent process equipment in an emergency condition.

The belt conveyor safety cable pull switch comprises of a shaft, case, case cover, lever and shackles. The case cover is fastened to the case with 4 cover bolts. A lead outlet is present on the one side of the case. The entire unit is manufactured from a metallic material and is painted an orange colour except for the shaft that is not painted. A red indication plate that is bolted to the shaft.

/ . Technical...

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Belt Conveyor Monitor
SR Series – SRS, SRT

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Technical data

Switching Capacity	15A,125/250 Vac 1/2A 125 Vdc SPDTx2
Action Force	49A9.8n (5A1kgf.m)
Reset Way	Manual
Ambient Temp	-20°C to +60°C
Ingress Protection	IP67
Enclosure Material	Die cast ADC
Weight	Approx. 2.9kg

SRT:

The conveyor belt misalignment switch monitors the operation process for potentially hazardous conditions and activate an alarm when a misalignment occurs.

The conveyor belt misalignment switch comprises of a roller or touch pully, case, case cover and adjustable arm to which the roller is mounted. The case cover is fastened to the case with 4 cover bolts. A lead outlet is present on the one side of the case. The entire unit is manufactured from a metallic material and is painted an orange colour except for the Touch pully arm that is not painted.

Technical data

Switching Capacity	15A,125/250 Vac 1/2A 125 Vdc SPDTx2
Action Force	3.4~5.4N.m (0.35~0.55kgf.m)
Reset Way	Auto
Ambient Temp	-20°C to +60°C
Ingress Protection	IP67
Enclosure Material	Die cast ADC
Weight	Approx. 2.9kg

MARKING:

Supplier: DRH Components (Pty) Ltd
Manufacturer: Shanghai Fine Automation Co., Ltd
Equipment: Belt Conveyor Monitor
Model: SR Series...
Serial No: (See validity of report)
Ex Rating: Ex tb IIIB T85°C Db
I.A. Number: MASC M/17-0943
Temperature: -20°C to +60°C

/ COMPLIANCE...

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COMPLIANCE

The unit as described above and in test number **MASC 17-0943** is hereby certified "Explosion Protected" Ex tb IIIB T85°C Db, IP67, -20°C to +60°C" and is suitable for use in hazardous locations as stated below and as tested, assessed and inspected in accordance with the relevant requirements of SANS Standards:

The evaluation was conducted according to the requirements of:

- SANS (IEC) 60079-0 : 2012 "Explosive atmospheres — Part 0: Equipment — General requirements"
- SANS (IEC) 60079-31 : 2014 "Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure "t""

Location	Zone 21	Dust / Surface
Hazard Frequency		Intermittent as could occur under normal operating conditions in hazardous area
Environment	Group IIIB	Non-Conductive Dust
Limiting Temperature	T85 °C	85°C
Ambient Temperature	-20°C to +60°C	

The use of apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- SANS 10086 requirements;
- Any conditions mentioned in the above report;
- Codes of Practice enforced in terms of Regulations 21.17.2 of Minerals Act, by Chief Inspector of Mines;
- Any restrictions and conditions enforced by Chief Inspectors of Mines, Principal Inspector (Group I equipment) of Chief Inspector of Factories (Group II equipment);
- Any relevant requirements of the MHS Act or the OHS Act.

CONDITIONS OF CERTIFICATION: CONDITIONS OF MANUFACTURE

- None

SPECIAL CONDITIONS FOR SAFE USE (X)

- None

/. CONDITIONS...

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CONDITIONS OF CERTIFICATION:

1. The apparatus must be additionally marked with the MASC marking details above.
2. This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date.
3. The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by NEPSI and in this approval.
4. The NEPSI certification must remain valid.
5. The extent of the requirements in the ARP 0108 (or regulations) and SANS 10108 on the certification of the equipment must remain unchanged.

According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory.)



F du Toit
TECHNICAL SPECIALIST



D.P Visser
TECHNICAL OFFICER

Mining And Surface Certification

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment is representative and accurately performed, and that a report is accurate in the quoted results and conclusions drawn from the test / assessment, MASC or its members/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report issued pursuant to a test / assessment.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and routine tests have been successfully completed and the product complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practises.

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