NON-HAZARDOUS AREA MALEMA FLOW SENSORS CONFIDENTIAL SPDT reed switch has 3 wires/3 wire cable SPST reed switch has 2 wires/ 2 wire cable Normally closed Normally Open Common Operation: When fluid flows through the unit it causes the magnetic piston to move against the spring force. As soon as the piston travels beyond the flow set point, the magnet piston actuates an encapsulated hermetically sealed reed switch. Decreasing the flow below the set point causes the reed switch to de-actuate. Mounting: The flow switch can be mounted in any position. Spring option may limit mounting position. Install the units in piping system using standard pipe fitting procedures. Install so that flow direction is consistent with the IN and OUT port direction. We recommend use of a 100 micron filtration. End fittings: Inlet and Outlet fittings range from 1/8" to 3/4" SAE8 or FNPT. (Review data sheet for applicable sizes for each flow switch series.) Set point adjustment: M-200X Series: May be adjusted by turning top adjustable screw. M-100X Series: May be adjusted by turning front adjustable screw. M-50X & M-60X Series: Are not adjustable. For more detail refer to the data sheet.

Reed Switch Data (Electrical Ratings)	SPDT	SPST	
Reed Switch	3-10 Watts (hermetically Sealed) UL		
	Recognized Operating Temperature -40C to 125 C		
Switching Voltge	170 VDC	200 VDC	
Break Down Voltage	200 VDC	250 Vdc	
DC Resistive	3 Watts	10 Watts	
AC Resistive	3 VA	10 VA	
Switching Current	0.25 Amps	0.5 Amps	
Carrying current	1.5 Amps	1.2 Amps	

Standards: IEC 60079-0 Ed.7 IEC 60079-18 Ed.4.1 EN60079-0, EN60079-18 Certificate: IECEx UL 13.0067X

DEMKO 19 ATEX 2278X

Ероху

Markings: Ex mb IIC T3 Gb Ex mb IIIC T150°C Db

Temperature Range:

Duralco 4461 -40°C ≤ T-Amb. ≤ +145°C

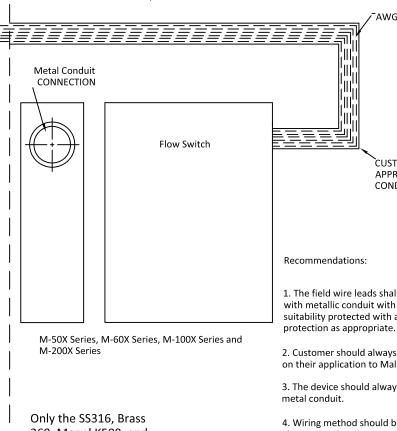
Markings:

Ex mb IIC T3 Gb Ex mb IIIC T150°C Db Temperature Range: -40°C ≤ T-Amb. ≤ +145°C Duralco 4461

JNAUTHORIZED USE, MANUFACTURE OR REPRODUCTION IN WHOLE OR IN PART PROHIBITED, DRAWINGS AND ALL

THER DISCLOSURES ARE PROPERTY OF MALEMA ENGINEERING CORPORATION.

The prospective short circuit current of the external electric supply source shall be greater than 1,500A.



HAZARDOUS AREA

SPDT and SPST reed switch Hermetically Sealed

360. Monel K500. and Hastelov C276 are IEC certified.

1. The field wire leads shall only be installed with metallic conduit with the termination suitability protected with an Ex type of

AWG 24 to 18, 1180 UL

CUSTOMER INSTALLS APPROPRIATE METAL

CONDUIT.

- 2. Customer should always provide full details on their application to Malema.
- 3. The device should always be grounded using the
- 4. Wiring method should be in accordance with electrical code requirements of the country of end use based on class/group classification.
- 5. Do not Parallel Associate Apparatus unless Permitted by associated apparatus approval.
- 6. A fuse rated not less than 1A, 250 VDC/VAC with a breaking capacity not less than 1500 A shall be connected externally and suitability protected with an Ex type of protection as appropriate.

PART N	EX-F	ROOF FLOW	SW]	TCHES	SCALE 	SHEET 1 DF	1
PART N	D. & DWG NO	<u>].</u>	REV	MATERIAL		•	
Haz	Hazardous Guidelines 01			NA			
<u>DRN.</u> RD	<u>DATE</u> 11/07/19	UNLESS OTHERWISE SPE					
CHKD. KJ	<u>DATE</u> 11/07/19	<u>TOLERANCES ON</u> .X ±.03 .XX ±.01		Malema Eng			n
<u>appd.</u> US	<u>DATE</u> 11/07/19	XXX + 005			ROGERS CIRCLE, ATON, FL 33487		