

Technical Datasheet



Nuclear Qualified Switch

Vapour Pressure and Gas Filled Temperature Switches wall mounted

Models: 721/2, 771/2

Key Features

- RCC-E K3 and K3 Ad qualified
- IEEE 323/344 Class 1E mild environmental not active qualified
- Set point adjustable over whole range against calibrated scale with tamperproof adjuster
- AISI 300 SS weatherproof enclosure, IP66/NEMA 4X
- Best in class Set point repeatability of up to 1% of span
- EPDM seals and gaskets suitable for exposure to radiation
- Ranges available up to 550°C (1020°F)
- Maximum working temperature up to 600°C (1110°F)
- Precision stainless steel mechanism for arduous atmospheres and high humidity
- Models for fixed or adjustable switching differential



Series Overview

Designed in the mid-1970s and developed over subsequent years, the Performance Series switch range offers users the broadest range of options, the highest levels of set-point repeatability and the confidence of long term performance that a mature product such as this can provide.

The models 721/2, 771/2 Performance Series temperature switches comprise of an armoured capillary upon which a compression gland slides, to enable various depths of thermowell (pockets) to be accommodated. This sensor is coupled to the microswitch via a precision stainless steel mechanism, the combination of which helps deliver the market leading performance customers can expect from the Series.

Other products in the series include:

- Differential Pressure Switches: Model 300
- Pressure Switches: Model 200
- Pressure Switches: Model S20

Product applications

The 700 Performance Series is suitable for a wide range of applications in Nuclear Power Stations:

- Water and waste water
- Steam
- HVAC system
- Hydraulic system

The choice of models available ensures that the 700 Performance Series is suitable for use in:

- Corrosive atmospheres
- Resistant to chemical attack
- High ambient radiation

How can we help you?

Delta Mobrey offers fast, efficient and knowledgeable support when and where you need it. Please visit our website at www.delta-mobrey.com to find your local support centre or call us on:

+44 (0) 1252 729140

Performance Series
Models: 721/2, 771/2

Technical Specification

Set point repeatability:	1% of span
Scale accuracy:	± 3% of full scale at reference temperature (20°C +/-5%) For models 721-2: The scale accuracy will be affected by relative position of head and sensing bulb i.e. "bulb elevation error". Refer to Operating Instruction for more information.
Storage Temperature:	-25 to +80°C / -13 to +176°F
Ambient Temperature:	-25 to +60°C / -13 to +140°F
	On models 721-2, with remote thermal system, it is advisable to avoid the condition where the ambient temperature is within ± 5°C (± 9°F) of the set point. Where this condition is unavoidable, refer to Models 771-2.
Proof Ambient Temperature:	The instruments range J1 and L4 suitable for room temperature control can withstand 100°C for 100h without permanent damage, although set-point drift may occur .
Drift of set point due to T amb:	Models 771-2: a 10°C (18°F) rise in ambient temperature will on average result in a set point fall of 2% of the span. Models 721-2: a 10°C (18°F) rise in ambient temperature will on average result in a set point fall of 0.8% of the span.
Maximum Process Temperature:	See Table 5
Enclosure classification:	Weatherproof
Ingress Protection:	IP 66 / NEMA 4X
Pollution Degree:	Pollution degree 3 according EN60947-5-1 (For extreme conditions where condensation may readily form, then sealed contacts should be used)
Switch output:	1 x SPDT
Electrical rating:	See Table 6
Grounding Connection:	One internal and one external
Electrical Safety Class:	Safety electrical class 1 according IEC 61298-2:2008
Process Connection:	See Table 7
Electrical Entry:	Harting connector (via non standard code "X"); Souriau or SAIB as per request; M20x1.5 suitable for a lite cable gland
Approximate Weight:	Enclosures: A & O 3.5kg /7.7lb (models 731-4 3.2kg/7.0lb)

Service Conditions

Ambient Temperature:	-25 to +80°C / -13 to +140°F
Humidity:	Up to 100% RH .
Operating cycles:	500
Ambient Radiation:	n.a.
Non Seismic Vibration:	Frequency 10 to 500Hz Amplitude 75 µm Acceleration 1g
Seismic:	ZPA 1,45g; 2 to 80 Hz (not active during the event)
Qualified life:	20years @ T _{amb} =55°C; 30years @ T _{amb} =50°C

DB Conditions

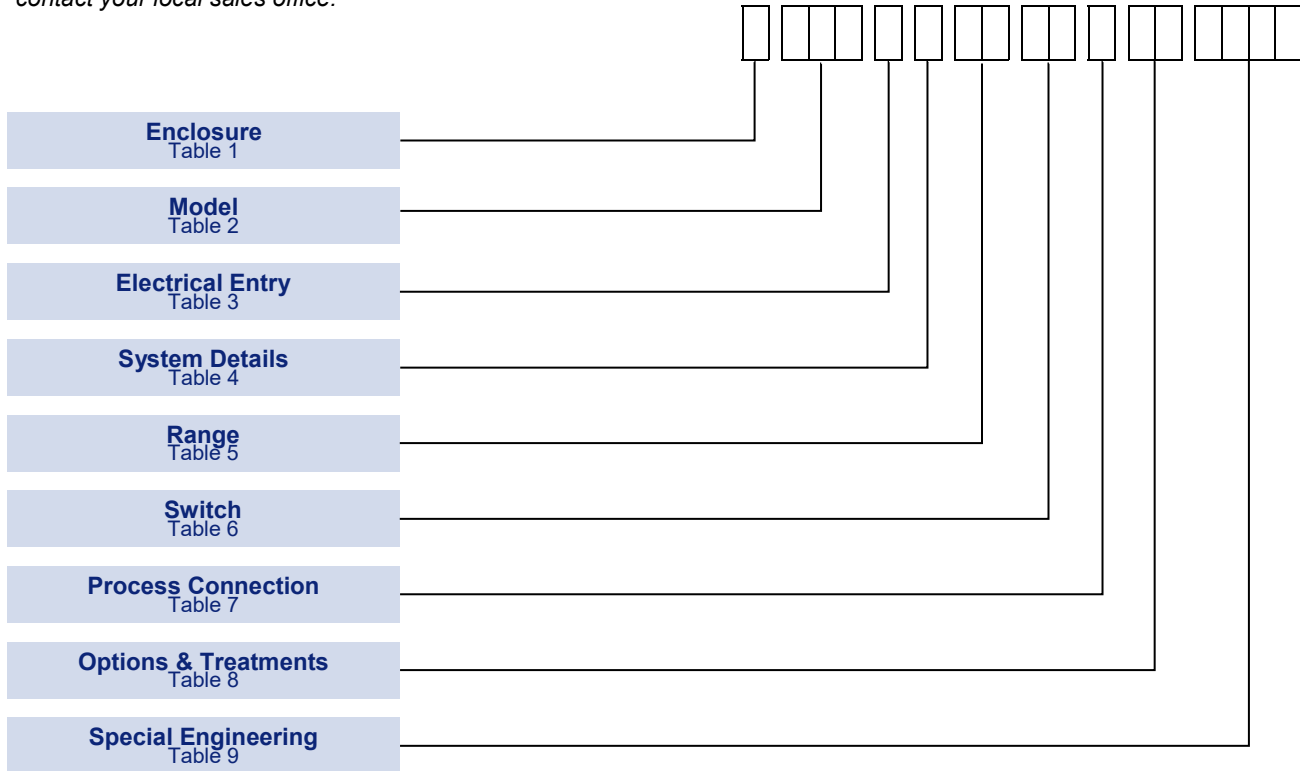
Seismic:	ZPA 2,9g ; 2 to 80 Hz
Radiation:	up to 25 MRad with Souriau or SAIB connector; 14 MRad with Harting connector; up to 25 MRad with lite cable gland (Code 0 on electrical entry)
Effect of DB condition on set point:	drift +/-2% span (After the DB event)

Quality System and Test Report

Quality System:	ISO 9001:2015 certified QS
Qualification Test Reports:	- EGS-TR-HC1804-05 - DCTR-K949-0002 - DMTR-K978-0002, DMTR-K978-0003, DMTR-K978-0004, DMTR-K978-0015, DMTR-K978-0016, DMTR-K978-0017, DMTR-K978-0018, DMTR-K978-0019

How to order

Switches can be configured by selecting codes representing the desired features from the tables that follow. The chart below, describes how the model code is built up. For assistance in configuring a switch that best suits your needs, please contact your local sales office.



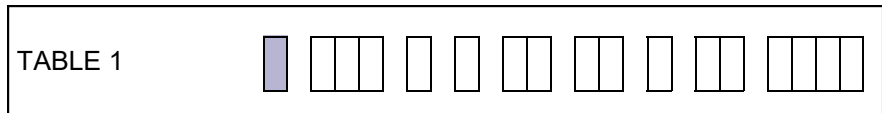
Note :

Model and configuration covered by Qualification by Test are evidenced in light blue.

Model and configuration already qualified by similarity are evidenced in light grey.

Enclosure

NOTE 1 : Enclosure code O available only with hermetically sealed microswitches.



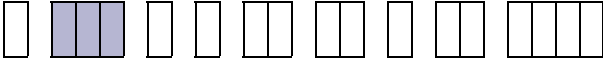
ENCLOSURE TYPES:	Code
<u>WEATHERPROOF ENCLOSURES</u>	
Aggressive Atmospheres Investment cast enclosure in austenitic stainless steel with ingress protection IP66.	A
<u>TYPE OF PROTECTION: INCREASED SAFETY ENCLOSURE</u> Self assessed for use in Zone 2 hazardous locations Ex ec nC IIC T6/T4 Gc, Ex tc IIIC T85/T135°C Dc The temperature class is related to the ambient temperature range see Approvals section for more information	
Aggressive Atmospheres Investment cast enclosure in austenitic stainless steel with ingress protection IP66. Limited switch options (see Tab.6).	O

Performance Series
Models: 721/2, 771/2

Models

For model and range availability see Tables 5A and 5B.

Models 721-2 & 771-2 are only available with armored capillary systems. 721-2 is available also with a special length system suitable for ambient temperature control.

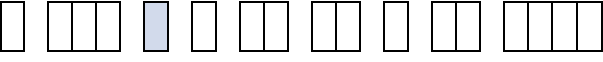
TABLE 2 

Model – and System Type	Vapour pressure flexible thermal system	Gas filled flexible thermal system
Fixed Switching Differential See Tables 10A and 10C. Basic model giving close, fixed switching differential using a proprietary microswitch operated by high integrity stainless steel mechanism. Set point field is adjustable over the full range against a calibrated scale.	721	771
Adjustable Switching Differential (Limited Span) See Tables 10B & 10D. Achieved by a special microswitch with a built-in adjuster, SPDT only. Not available with enclosure code O.	722	772

Electrical Entry

Note 1: Harting connector is identified with code “X” and specified in the ES description.

Note 2: In case of Special Engineer code N (see table 9) the receptacle will be classified as K2 component.

TABLE 3 

Quick Connector	Code
7 pin SAIB receptacle. Part Number 251-207-400 (Not for enclosure O) (Note 2)	I
3 pin SAIB receptacle. Part number 251-103-400 (Not for enclosure O) (Note 2)	P
Harting HAN 7D receptacle and female plug	X
7 pin SOURIAU receptacle. Part number 8N45S211125 (Not for enclosure O) (Note 2)	Y
3 pin SOURIAU receptacle. Part number 8N45S111125(Not for enclosure O) (Note 2)	Z
M20 x 1.5 ISO thread (direct) (to be used with a lite cable gland max 200g)	0

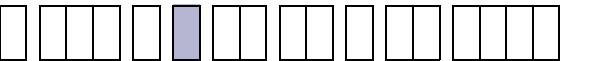
The electrical connection to the temperature switch was qualified with quick connector. The electrical connection must guarantee the sealing of the enclosure and must prevent any added mechanical stress on the temperature switch under seismic disturbances.

Performance Series
Models: 721/2, 771/2

System Details

The flexible thermal system comprises of an armored capillary attached to the sensing bulb via a semi-rigid extension on which a compression gland slides to enable various depths of thermowell (pockets) to be accommodated. See DIMENSIONS.

All parts of the thermal system are manufactured in 300 series stainless steel with the capillary sensing bulb and armor in 316 stainless steel.

TABLE 4 

Capillary Length (K see dimension) †		Length of semi-rigid Stem (Ymax see dimension)†		Code
Metres	Feet	mm	inches	
3	10	250	10	E
3	10	500	20	F
6	20	250	10	G
6	20	500	20	H
Special length system, operation by Stainless Steel bellows.				2
† Other lengths are available to order, see ES No.				X

Setting Ranges

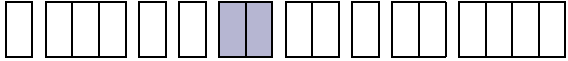
TABLE 5 

Table 5A - Deg C

Tmax = maximum working temperature

NOTE: All models have a bulb diameter of 12mm (0.47in)

Note (^): Instruments suitable for room temperature control (Code N132 Table 9): the max temperature is limited to 80 C.

Bulb length: SAMA IIC, IIA 80 mm
SAMA IIIB 90 mm

SAMA Class (^)	Availability		Range	<i>Tmax</i>	Code
	721-2	771-2			
II C (*)	✓	-	-5 to +65	80 (^)	H2
	✓	-	20 to 90 (^)	95 (^)	J1
II A	✓	-	50 to 120 (^)	130 (^)	L4
	✓	-	100 to 170	180	Q4
III B	-	✓	-50 to +50	80	F1
	-	✓	0 to 200	250	R1
	-	✓	0 to 300	375	V2
	-	✓	0 to 550	600	Y3

Table 5B - Deg F

Tmax = maximum working temperature

NOTE: All models have a bulb diameter of 12mm (0.47in)

Note (^): Instrument suitable for room temperature control (Code N132 Table 9): the max temperature is limited to 176 F.

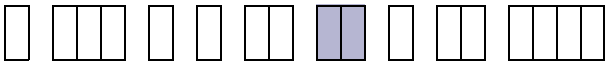
Bulb length: SAMA IIC, IIA 80 mm
SAMA IIIB 90 mm

SAMA Class (^)	Availability		Range	<i>Tmax</i>	Code
	721-2	771-2			
II C (*)	✓	-	20 to 150	176 (^)	HB
	✓	-	70 to 200 (^)	203 (^)	JF
II A	✓	-	120 to 250 (^)	270 (^)	LB
	✓	-	210 to 340	360	QA
III B	-	✓	-60 to +120	180	FF
	-	✓	32 to 392	480	RA
	-	✓	32 to 570	700	V3
	-	✓	32 to 1020	1110	YC

(^) SAMA (Scientific Apparatus Makers Association), today LPA (Laboratory Products Association)

(*) For instruments SAMA IIC class with set point around ambient temperature, due to liquid/vapour phase becomes less well defined, the dead band may increase.

Switch Options

TABLE 6 

Model 721, 771								
UL/CSA RATING (RESISTIVE) § see note	IEC947-5-1 / EN 60947-5-1 RATING						Contact	Code
	Designation & Utilizations Category	Rated operational current I_e (A) at rated operational voltage U_e	U_i	U_{imp}	VA Rating			
					Make	Break		
5 A; 250V AC, 2 A; 30V DC Hermetically sealed. Gold plated silver contacts fitted with radiation resistant wiring. Passed RCC-E and IEEE testing	AC14 D300 DC13 R300	0.6/0.3A, 120/240 V AC 0.22/0.1A, 125/250V DC	250V	0.5kV	432 28	72 28	SPDT	H9
Model 722, 772 (not for enclosure "O")								
5 A; 110/250V AC 2 A; 30 V DC Silver contacts adjustable dead band fitted with radiation resistant wiring.	AC14 D300 DC13 R300	0.6/0.3A, 120/240 V AC 0.22/0.1A, 125/250V DC	250V	0.8kV	432 28	72 28	SPDT	0D **
** See Note 1 on TABLE 1 for limitation on use.								

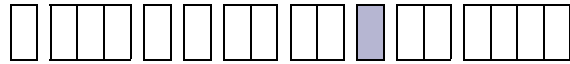
Performance Series
Models: 721/2, 771/2

Process Connection

Other thread specifications and sizes are available without using adaptors. See DIMENSIONS.

Adaptors are available for applications where their use is permitted.

TABLE 7

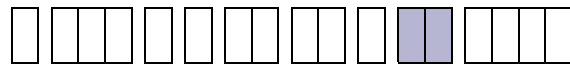


	Code
3/8 – 18 NPT-M Sliding Gland	E
1/2 – 14 NPT-M Sliding Gland	J
G1/2 Sliding gland	K
Non standard requirement	X
No process connection – for ambient air measurement or wall-mounted installation	Y

Options & Treatments

Combinations available, apply for details.

TABLE 8

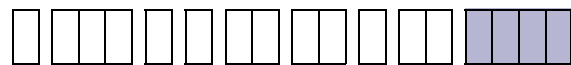


	Code
Topicalizations High humidity atmospheres	01
Stainless Steel permanently fixed stamped tags, Tropicalization and offshore marine application	2A
Stainless Steel permanently fixed stamped tags	20
Applies when - no option is required and selection is made from special engineering	00

Special Engineering

Last 4 digits of the model code are only used when special engineering is required.

TABLE 9



	Code
1st digit of ES code identify the installation area	
Conventional Island (refer to the applicable conventional TDS)	C - - -
Nuclear Island	N - - -

2nd, 3rd and 4th digit of ES code identify special construction	
Nuclear Qualified / Class 1E mild environmental - RCC-E K3 Ad product for use in classified areas of Nuclear Power plants zones with seismic and/or radiation requirements.	N006
As N006 + System with 1.5m stainless steel capillary (K), 250mm semi-rigid stem (Ymax 330mm), 12mm O/D bulb	N133
As N006 + System with 4m stainless steel capillary (K), 250mm semi-rigid stem (Ymax 330mm), 12mm O/D bulb	N001
As N006 + System with 8m stainless steel capillary (K), 250mm semi-rigid stem (Ymax 330mm), 12mm O/D bulb	N003
As N006 + System with 10m stainless steel capillary (K), 250mm semi-rigid stem (Ymax 330mm), 12mm O/D bulb	N004
As N006 + System with 12m stainless steel capillary (K), 250mm semi-rigid stem (Ymax 330mm), 12mm O/D bulb	N007
As N006 + System with 14m stainless steel capillary (K), 250mm semi-rigid stem (Ymax 330mm), 12mm O/D bulb	TBD
As N006 + System with 16m stainless steel capillary (K), 250mm semi-rigid stem (Ymax 330mm), 12mm O/D bulb	N008
As N006 + System with 8m stainless steel capillary (K), 500mm semi-rigid stem (Ymax 580mm), 12mm O/D bulb	N028
As N006 + System with 14m stainless steel capillary (K), 500mm semi-rigid stem (Ymax 580mm), 12mm O/D bulb	N033

2nd, 3rd and 4th digit of ES code identify special construction	
Nuclear Qualified / Class 1E mild environmental - RCC-E K3 Ad product for use in classified areas of Nuclear Power plants zones with seismic and/or radiation requirements Electrical entry - Harting Han 7D Plug & Socket.	N065
Nuclear Qualified / Class 1E mild environmental - RCC-E K3 Ad product for use in classified areas of Nuclear Power plants zones with seismic and/or radiation requirements. Static Magnetic Field (SMF) tested up to 160mT and Harting Han LOCA qualified connectors. Assembled with halogen-free rubber.	N086
Nuclear Qualified / Class 1E/RCC-E product for use in classified areas of Nuclear Power plants zones with seismic and/or radiation requirements. Sensing bulb mounted directly to the instrument without a capillary or extension tube. Suitable for wall mounting for ambient temperature control.	N132

Performance Data

TABLE 10 - Dead Band

Due to manufacturing tolerances, the figures quoted in these tables are for guidance only and are typical for weatherproof models. Should the differential be critical for specific applications, our engineers should be consulted prior to ordering.

The dead band values are measured with a temperature ramp not exceeding 0.5°C/min

Celsius Units (°C)

MODELS 721, 771 TABLE 10A

SAMA Class (^)	Range Code	Range (°C)	SPDT
			H9
IIC(*)	H2	-5 to +65	5,5
	J1	20 to 90	5,5
IIA	L4	50 to 120	5,5
	Q4	100 to 170	8
IIIB(***)	F1	-50 to +50	16
	R1	0 to 200	**
	V2	0 to 300	28
	Y3	0 to 550	40

MODELS 722, 772 TABLE 10B

SAMA Class (^)	Range Code	Range (°C)	Micro 0D at LRL (#)		Micro 0D at URL (#)	
			Min	Max	Min	Max
IIC(*)	H2	-5 to +65	4.5	12	1.6	4
	J1	20 to 90	5	14.5	1.5	5
IIA	L4	50 to 120	7.5	14.5	2	5.5
	Q4	100 to 170	6	16	1.5	5.5
IIIB(***)	F1	-50 to +50	**	**	**	**
	R1	0 to 200	**	**	**	**
	V2	0 to 300	**	**	**	**
	Y3	0 to 550	**	**	**	**

Fahrenheit Units (°F)

MODELS 721, 771 TABLE 10C

SAMA Class (^)	Range Code	Range (°F)	SPDT
			H9
IIC(*)	HB	20 to 150	10
	JF	70 to 200	10
IIA	LB	120 to 250	10
	QA	210 to 340	14
IIIB(***)	FF	-60 to +120	60
	RA	32 to 392	**
	V3	32 to 570	50
	YC	32 to 1020	72

MODELS 722, 772 TABLE 10D

SAMA Class (^)	Range Code	Range (°F)	Micro 0D at LRL(#)		Micro 0D at URL (#)	
			Min	Max	Min	Max
IIC(*)	HB	20 to 150	8.5	21.5	2.5	7
	JF	70 to 200	9.7	32	3	11.5
IIA	LB	120 to 250	14	26	4	10
	QA	210 to 340	11	28.5	2.5	10
IIIB(***)	FF	-60 to +120	**	**	**	**
	RA	0 to 392	**	**	**	**
	V3	32 to 570	**	**	**	**
	YC	32 to 1020	**	**	**	**

(^) SAMA (Scientific Apparatus Makers Association), today LPA (Laboratory Products Association)

(*) For instruments SAMA IIC class with set point around ambient temperature, due to liquid/ vapour phase becomes less well defined, the dead band may increase.

(**) Consult our Engineering Dept. for details

(***) Deadband values for ranges M1/MF & Y3/YC, are approximate

(#) The values within which the dead band can be adjusted vary, for a given range, depending on the actual set point. The table shows such values at lower range limit (LRL) and at upper range limit (URL). For intermediate set points, the values will be proportionally intermediate

Approvals



EUROPEAN DIRECTIVE

Low Voltage Directive (LVD) 2014/35/EU

Compliant to LVD

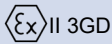
Restriction of hazardous substances (RoHS 2) 2011/65/EU

Compliant to RoHS

ATEX Directive 2014/34/EU

INCREASED SAFETY

- Ex ec nC IIC T6 Gc (-25°C≤Ta≤+40°C)
- Ex ec nC IIC T4 Gc (-25°C≤Ta≤+80°C)
- Ex tc IIIC T85°C Dc IP66 (-25°C≤Ta≤+40°C)
- Ex tc IIIC T135°C Dc IP66 (-25°C≤Ta≤+80°C)



UK REGULATION

Electrical Equipment (Safety) Regulations 2016

Conform to UK SI 2016 No 1101 regulation

Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

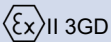
Conform to UK SI 2012 No. 3032

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016

Conform to UK SI 2016 No 1107 regulation

INCREASED SAFETY

- Ex ec nC IIC T6 Gc (-25°C≤Ta≤+40°C)
- Ex ec nC IIC T4 Gc (-25°C≤Ta≤+80°C)
- Ex tc IIIC T85°C Dc IP66 (-25°C≤Ta≤+40°C)
- Ex tc IIIC T135°C Dc IP66 (-25°C≤Ta≤+80°C)



OPTIONAL PARTS

Optional electric plugs

Instruments are supplied without plug. If necessary plugs can be supplied as spare. Please refer to the table below for the correct type and code also in relation to the table 9 (Special Engineering)

Electrical entry code TABLE 3		Optional Plug		
Code	Description	DML Part Number	Description	Supplier Part Number
I	7 pin SAIB receptacle	3400459	K2 SAIB NU25 Size 2-7, Female Plug 7 cts with shielding continuity (washer and Raykem heat shrink tube code wcsf-300-28/8-75N)	254-207-400-K2 + 25-44-01
		3400461	SAIB NU25 Size 2-7, Female Plug 7 cts , with shielding continuity (washer and Raykem heat shrink tube code wcsf-300-28/8-75N)	254-207-400 + 25-44-01
P	3 pin SAIB receptacle	3400460	K2 SAIB NU25 Size 1-3, Female Plug 3 cts, with shielding continuity (washer and Raykem heat shrink tube code wcsf-200-18/5-75N-CS411)	254-103-400-K2 + 25-44-00
		3400462	SAIB NU25 Size 1-3, Female Plug 3 cts, with shielding continuity (washer and Raykem heat shrink tube code wcsf-200-18/5-75N-CS411)	254-103-400 + 25-44-00
Y	7 pin SOURIAU receptacle	3400353	Souriau 8N45S, Female Plug 7 cts, K2 Mild environment	8N45S218571K2
		3400269	Souriau 8N45S, Female Plug 7 cts	8N45S218572
Z	3 pin SOURIAU receptacle	3400367	Souriau 8N45S, Female Plug 3 cts, K2 Mild environment	8N45S118532K2
		3400365	Souriau 8N45S, Female Plug 3 cts	8N45S118532

Dimension

All dimensions mm

A ENCLOSURE SOURIAU/SAIB CONNECTOR

Technical drawing of the SOURIAU/SAIB connector. It shows a main view with dimensions: 174mm total width, 154mm internal width, 78mm (CoG) offset, 80mm height, 47mm (CoG) offset, 25mm offset, 108mm offset, 67mm offset, 45mm offset, and a diameter of 12mm. It also shows a side view with dimensions 121mm, 62mm, 77mm, 65mm (CoG), and 70mm. Components include: SOURIAU/SAIB PLUG, SLIDING GLAND PROCESS CONNECTION, and STAINLESS STEEL FLEXIBLE ARMoured CAPILLARY. The drawing is labeled DS_21348.

Code		E	F	G	H
Immersion Length, Y max	mm	330	580	330	580
	inch	13	23	13	23
Immersion Length, Y min	mm	125	125	125	125
	inch	5	5	5	5
Capillary Length, K	m	3	3	6	6
	ft	10	10	20	20
Active Length, X SAMA IIC, IIA	mm	80	80	80	80
	inch	3	3	3	3
Active Length, X SAMA IIIB	mm	90	90	90	90
	inch	3.5	3.5	3.5	3.5

VIEWED FROM OUTSIDE
180°W
[SPDT]

WIRING DIAGRAM
(SOURIAU/SAIB CONNECTOR - SOCKET END)

VIEWED FROM OUTSIDE
160°W
[SPDT]

WIRING DIAGRAM
(SOURIAU/SAIB CONNECTOR - SOCKET END)

NOTES:
RECOMMENDED SCREWS FOR INSTALLATION ARE M6 GRADE 8.8

A ENCLOSURE HARTING CONNECTOR

Technical drawing of the HARTING connector. It shows a main view with dimensions: 174mm total width, 154mm internal width, 85mm (CoG) offset, 80mm height, 25mm offset, 105mm offset, 67mm offset, 45mm offset, and a diameter of 12mm. It also shows a side view with dimensions 121mm, 65mm (CoG), and 70mm. Components include: HARTING PLUG, SLIDING GLAND PROCESS CONNECTION, and STAINLESS STEEL FLEXIBLE ARMoured CAPILLARY. The drawing is labeled DS_21348.

Code		E	F	G	H
Immersion Length, Y max	mm	330	580	330	580
	inch	13	23	13	23
Immersion Length, Y min	mm	125	125	125	125
	inch	5	5	5	5
Capillary Length, K	m	3	3	6	6
	ft	10	10	20	20
Active Length, X SAMA IIC, IIA	mm	80	80	80	80
	inch	3	3	3	3
Active Length, X SAMA IIIB	mm	90	90	90	90
	inch	3.5	3.5	3.5	3.5

CONNECTOR HARTING 7 PIN
VIEWED FROM OUTSIDE

WIRING DIAGRAM [SPDT]

INTERNAL CONNECTOR (HOUSING)

CONNECTED TO:
1. COMMON
2. NORMALLY CLOSED
3. NORMALLY OPEN
8. EARTH

121mm
65 (CoG)
70mm

NOTES:
RECOMMENDED SCREWS FOR INSTALLATION ARE M6 GRADE 8.8

Performance 2Series
Models: 721/2, 771/2

Dimension

All dimensions mm

A ENCLOSURE WITH ELECTRICAL ENTRY M20x1.5 SUITABLE FOR LITE CABLE GLAN

Code		E	F	G	H
Immersion Length, Y max	mm	330	580	330	580
	inch	13	23	13	23
Immersion Length, Y min	mm	125	125	125	125
	inch	5	5	5	5
Capillary Length, K	m	3	3	6	6
	ft	10	10	20	20
Active Length, X SAMA IIC, IIA	mm	80	80	80	80
	inch	3	3	3	3
Active Length, X SAMA IIIB	mm	90	90	90	90
	inch	3.5	3.5	3.5	3.5

Labels: SENSING BULB, SEMI-RIGID STEM, SLIDING GLAND PROCESS CONNECTION, STAINLESS STEEL FLEXIBLE ARMoured CAPILLARY, M20 x 15 ELECTRICAL ENTRY.

Dimensions: 174, 154, 85 (CoG), 25, 39 (CoG), 80, 105, 67, 45, 4.5, 121, 62, 77, 65 (CoG), 70.

Code: DS_21348

NOTES: RECOMMENDED SCREWS FOR INSTALLATION ARE M6 GRADE 8.8

A ENCLOSURE

APPROXIMATE WEIGHT: 3.5 kg
 CENTRE OF GRAVITY (CoG): AS PER DIMENSIONS
 RECOMMENDED BOLTS FOR WALL MOUNTING:
 4 OFF HEXAGON SOCKET HEAD CAP M6, CLASS 8.8
 TORQUE AT 9.5 N.M

Dimensions: 174.0, 154.0, (140), 80.0, 48 (CoG), 2.0, 7.0, 78 (CoG), (97), (125), 77, 126, 62, 65 (CoG), 23, 45, (261), (70).

Model: A722P2H20DY2AN132

Performance 2Series
 Models: 721/2, 771/2

In the interest of development and improvement Delta Mobrey Ltd, reserves the right to amend, without notice, details contained in this publication. No legal liability will be accepted by Delta Mobrey Ltd for any errors, omissions or amendments.

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