The Multifunction grips (MFGs) from DeltaTech Controls provide the reliability required in demanding environmental conditions such as heavy duty industrial applications and off-road. The high mechanical strength of the shaft and the unique look and feel make these multifunction grips ideal for rigorous use in rugged, harsh environments. Multifunction grips are

designed for use with
DeltaTech Controls' AJ3/AJ4
Joysticks but can also be
used together with other
joysticks. For more
information on the AJ3 and
AJ4 please consult the AJ3
and AJ4 datasheets.

Main Features

- Ergonomic shape and controls position
- Variable functions and mountings
- Grips mountable for left and right handed usage
- Precise tactile feedback of switches
- Adjustable handrest and soft-touch overmolding (S3 grip)
- Company own K12 switch technology for high reliability









Ball - L









S4

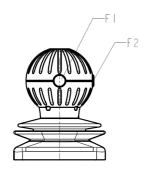
S7

Grip – Order Codes

Standard MFG's for the AJ3 Joystick.



MFG Ball



Or	dering code		1	2	3	4	5
		Example	Ball	l-L	TAJ	CAJ	1F-1
1	Туре	Ball = MFG Ball	-	1	1	1	1
2	Ball size	-L = Large					
		-S = Small					
3	Tube	TAJ = tube for AJ3					
		TC = customized tube***					
4	Cable	CAJ = cable for AJ3					
		CS = standard cable					
		CC = customized cable ***					
5	Functions	OF = no switch					
		1F = one switch*					
		2F = two switches**					

^{***} Details available on request.

For more technical data and drawings see overleaf.

All switches are well known high reliable **K12 switches**.

- up to 2 single switches
- rated for protection class IP65

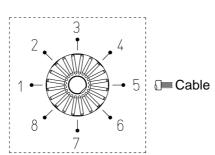
Standard cable (CS):

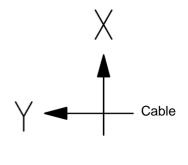
Typ: LIFY 0,25mm²

Length: 1.200 mm (from end of tube)

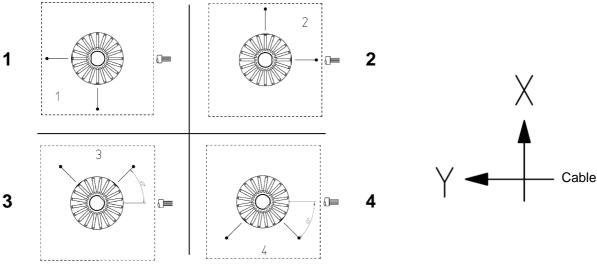
* Position of single switch (1F) – topview on ball grip:

Small Ball grip available with switch in position 1, 4, 5 or 8 only.





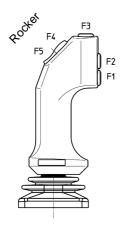
** Position of two switches (2F, large Ball only) – topview on ball grip:



www.deltatechcontrols.com



MFG S1



Oı	rdering code		1	2	3	4
		Example	S1	TS	CS	5F
1	Type	S1 = MFG S1		Ť	1	1
2	Tube	TS = standard tube				
		TAJ = tube for AJ3				
		TC = customized tube*				
3	Cable	CAJ = cable for AJ3				
		CS = standard cable				
		<pre>CC = customized cable*</pre>				
4	Functions	5F = 3 switches & 1 switch				
		rocker				
* [etails available i	on request				

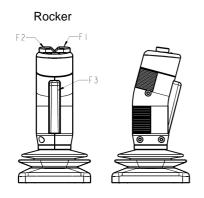
For more technical data and drawings see overleaf.

- 3 single switches (F1, F2, F3)
- 1 momentary switch rocker (F4/F5)
- rated for protection class IP65

All switches are well known high reliable K12 switches. Standard cable (CS): LIFY 0,35mm² Typ:

Length: 1.000 mm (from end of tube)

MFG S2



All switches	are well known
high reliable	K12 switches.

Ordering code		1	2	3	4
	Example	S2	TS	CS	3F
1 Type	S2 = MFG S2		1	1	1
2 Tube	TS = standard tube				
	TAJ = tube for AJ3				
	TC = customized tube*				
3 Cable	CAJ = cable for AJ3				
	CS = standard cable				
	CC = customized cable*				
4 Functions	1F = enabling switch				
	2F = 1 rocker				
	3F = enabling switch & 1 rocker				
* Details available	on request				

For more technical data and drawings see overleaf.

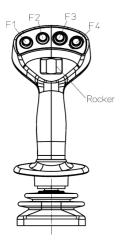
- 1 enabling switch (F3)
- 1 momentary switch rocker (soft-touch) (F1/F2)
- optional hard plastic cap for rocker protection
- rated for protection class IP65

Standard cable (CS): Typ: LIFY 0,25mm²

Length: 190 mm (from end of tube)

MFG S3





- Grip with soft-touch overmolded switch block
- Optional front rocker analog or switch rocker (AR3/SR3) horizontal or vertical mountable
- Optional rear rocker analog or switch rocker (AR3/SR3) vertical mountable
- 4 momentary switches (optional with backlighting)
- optional adjustable handrest for different handsizes
- Rated for protection class IP65

Rocker actuators available:







shape 2

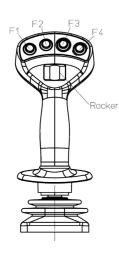


shape 5





MFG S3



						CON	IK	O L
Or	dering code		1	2	3	4	5	6
		Example	S3	AR3H-5	SR3-1	TAJ-B	CS	4F
1	Туре	S3 = MFG S3		1	Î	1	1	1
2	Front Rocker	AR3 = Analog Rocker 3						
		SR3 = Switch Rocker 3						
		N = None						
	Install position	H = horizontal						
		V = vertical						
	Actuator Shape	-1 = actuator shape 1						
		-2 = actuator shape 2						
		-5 = actuator shape 5						
3	Rear Rocker	AR3 = Analog Rocker 3						
	alw ays vertical	SR3 = Switch Rocker 3						
		N = None						
	Actuator Shape	-1 = actuator shape 1						
		-2 = actuator shape 2						
_		-5 = actuator shape 5						
4	Tube*	TS1 = standard tube 1						
		TS2 = standard tube 2						
		TAJ = tube for AJ3						
		TC = customized tube***						
	Cable exit*	-B = bottom exit						
_		-S = side exit						
5	Cable	CAJ = cable for AJ3	-					
		CS = standard cable						
_		CC = customized cable***						
6	Front Switches**	N = no switch						
		4F = 4 switches (F1- F4)						
	rouingo ooo overlee	C = customized***	Ļ					

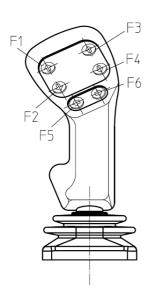
^{*}Drawings see overleaf. **Different switch versions available on request.

Standard cable (CS): Typ: LIFY 0,25mm²

Length: 1.200 mm (from end of tube)

All switches are well known high reliable **K12 switches**.

MFG SK



Ordering cod	le	1	2	3	4	5
	Exam ple Exam ple	SK	TS	CS	9F	N
1 Type	SK = MFG SK	-	1	1		1
2 Tube	TS = standard tube					
	TAJ = tube for AJ3					
	TC = customized tube*					
3 Cable	CAJ = cable for AJ3					
	CS = standard cable					
	CC = customized cable*					
4 Functions	** 6F = 6 switches					
	9F = 9 switches	-				
	11F = 11 switches					
4 Decals	N = without decals (black)					
	A = standard decals (arrows)**					
	C = customized decals					
* Details available	on request ** see drawing overleaf					

*Details available on request. **see drawing overle For more technical data and drawings see overleaf.

• rated for protection class IP65

Standard cable (CS): Typ: LIFY 0,34mm²

Length: 1.140 mm (from end of tube)

All switches are well known high reliable **K12 switches**.

^{***}Details available on request. For more technical data and drawings see overleaf.

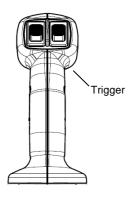


MFG S4

Or	Ordering code		1		2	3	3	4	5		6	7		8
		Example	S4	T	AJ	С	S	CS	AR	4	AR4	V	Т	Т
1	Туре	S4 = MFG S4			1	1		1	1		1	1		1
2	Tube	TAJ = tube for AJ4												
		TC = customized tube*												
3	Cable	CAJ = cable for AJ4												
		CS = standard cable												
		CC = customized cable*												
4	Connector	CS = standard connector	_											
		CC = customized connector*												
5	Function A	N = no switch												
	(left / top)	1F = 1 Pushbutton switch												
		2F = 2 Pushbutton switches												
		AR4 = Analog Rocker 4												
		FNR = Forward-Neutral-Reverse												
6	Function B	N = no switch												
	(right / bottom)	1F = 1 Pushbutton switch												
		2F = 2 Pushbutton switches												
		AR4 = Analog Rocker 4												
		FNR = Forward-Neutral-Reverse												
7	Install position	H = horizontal												
		V = vertikal												
8	Trigger	N = None												J
		T = Trigger												

^{*}Details available on request.

For more technical data and drawings see overleaf.



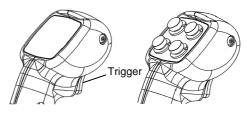
Rated for protection class IP67

Standard cable (CS): Typ: AWG 20

Length: 700 mm (from end of tube) inclusive connector

Connector: Deutsch DT04 - I2P

Available variantes



Blank Faceplate Order Code: Functions N N H Max. 4 pushbutton switches Order Code: Functions 2F 2F H



Combination FNR switch and AR4 Order Code: Functions FNR AR4 V

Max. 2 Analog Rocker (AR4) Order Code: Functions AR4 AR4 V



Combination pushbutton switch and AR4 Order Code: Functions 1F AR4 V

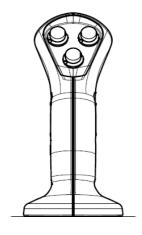
MFG S7



Ordering	code		1	2	3	4	5
	Exam ple		S7	TAJ	CS	CS	L-AR4/R-1F
1 Type	S7 = MFG S7	7		1	1	1	1
2 Tube	TAJ = tube	e for AJ4					
	TC = cust	tomized tube*					
3 Cable	CAJ = cab	le for AJ4					
	CS = stan	ndard cable					
	CC = cus	tomized cable*					
4 Conn	ector CS = stan	ndard connector					
	CC = cus	tomized connector*					
5 Funct	ions N = non	ne					
	3F = 3 s	witches					
	L- / R- = Lef	t - / Right -					
	N	= none					
	1F	= 1 switch					
	AR4	4 = Analog Rocker 4					

^{*}Details available on request.

For more technical data and drawings see overleaf.



• Rated for protection class IP67

Standard cable (CS):

AWG 20 Typ:

Length: 700 mm (from end of tube) inclusive connector

Connector: Deutsch DT04 - I2P

Available variantes



Blank Faceplate Order Code: Functions N



AR4 left or right Order Code: Functions L-AR4 / R-N Order Code:



Combination pushbutton switch and AR4 Order Code: Functions L-AR4 / R-1F



1 pushbutton switch Functions L-N / R-1F



3 pushbutton switches Order Code: Functions 3F



AR4 left or right Order Code: Functions L-N / R-AR4



Combination pushbutton switch and AR4 Order Code: Order Code:

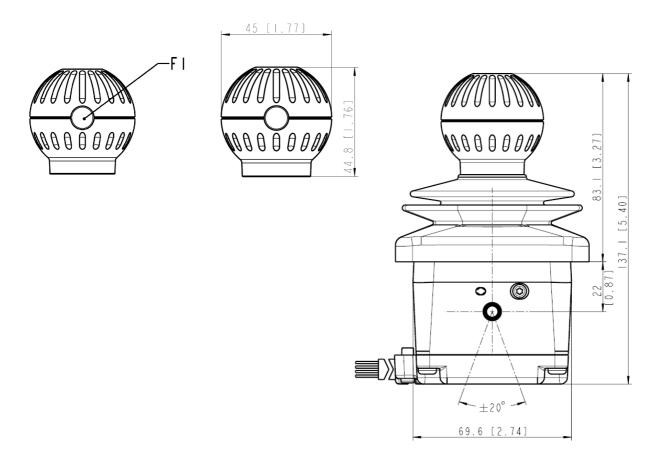
Functions L-1F / R-AR4



1 pushbutton switch Functions L-1F / R-N

MFG Ball small





AJ3 joystick with MFG Ball small

Switch Layout Diagram



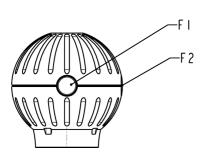
Standard cable (CS):

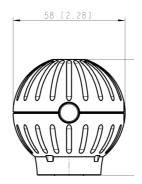
Typ: LIFY 0,25mm²

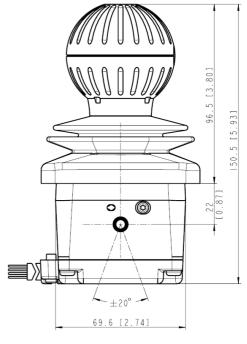
Length: 1.200 mm (from end of tube)

MFG Ball large



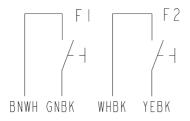






AJ3 joystick with MFG Ball large

Switch Layout Diagram

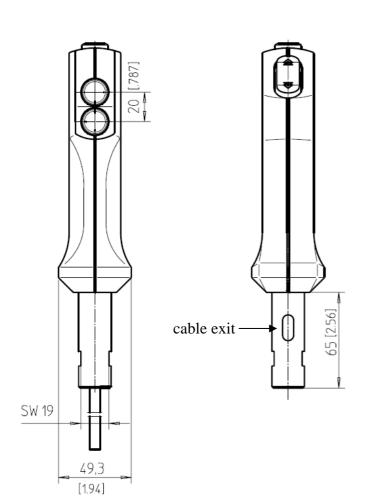


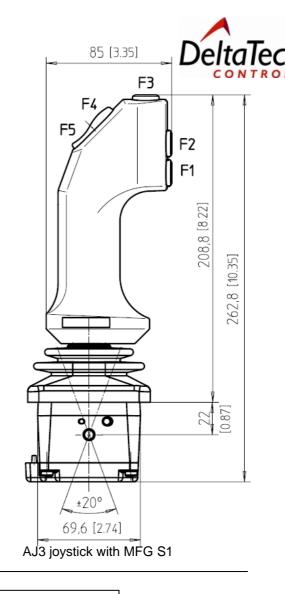
Standard cable (CS):

Typ: LIFY 0,25mm²

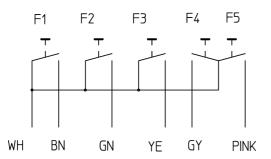
Length: 1.200 mm (from end of tube)

MFG S1





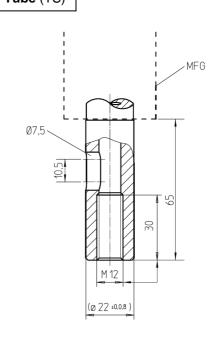
Switch Layout Diagram



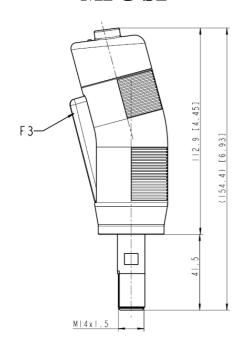
Standard cable (CS): Typ: LIFY 0,35mm²

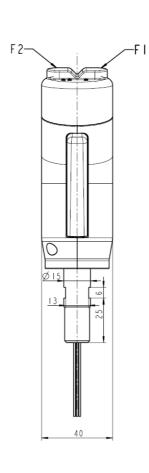
Length: 1.000 mm (from end of tube)

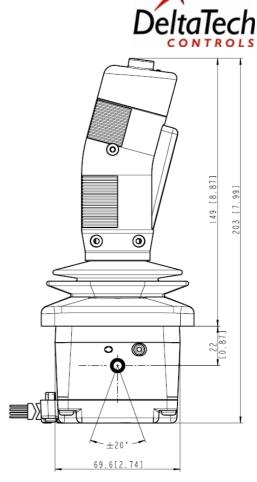
Standard Tube (TS)



MFG S2

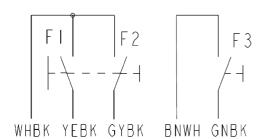






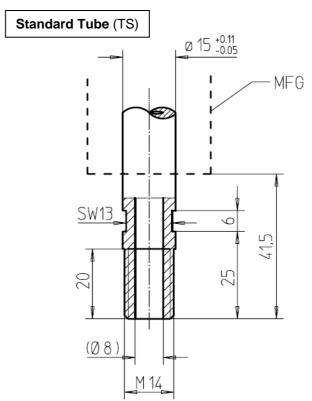
AJ3 joystick with MFG S2

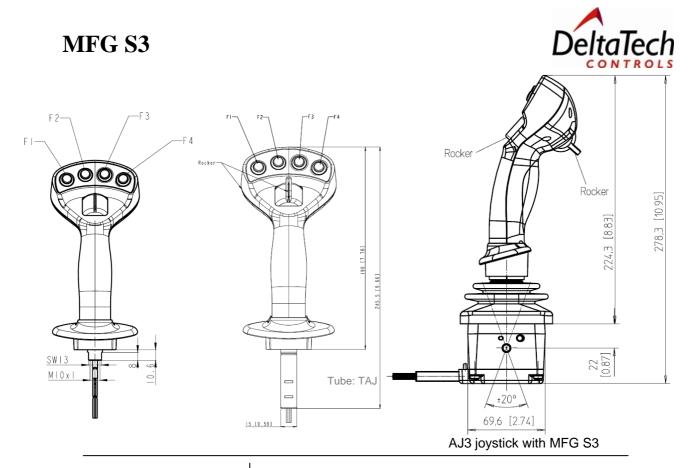
Switch Layout Diagram



Standard cable (CS): Typ: LIFY 0,25mm²

Length: 190 mm (from end of tube)





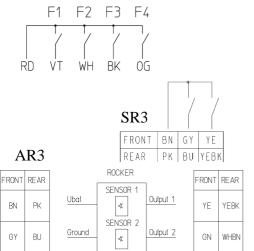
Standard cable (CS):

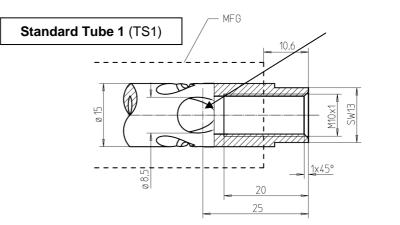
Typ: LIFY 0,25mm²

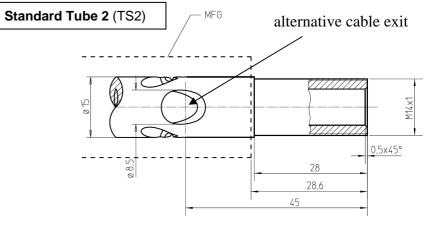
Length: 1.200 mm

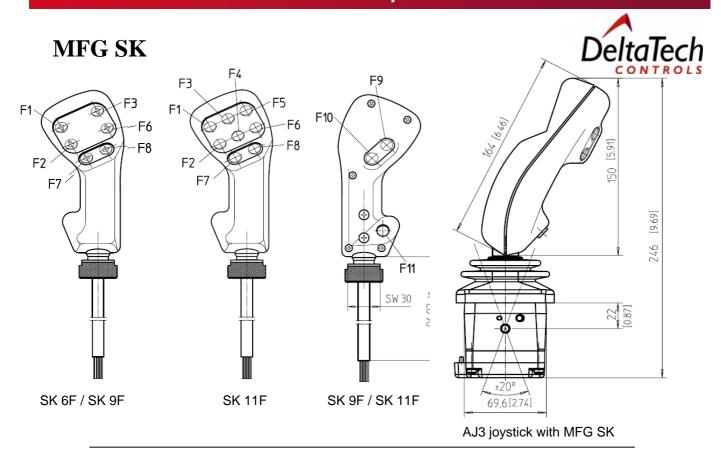
(from end of tube)

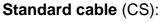
Switch Layout Diagram











Typ: LIFY 0,34 mm²

Length: 1.140 mm (from end of tube)

Printing (standard arrows)

SK FA/FB



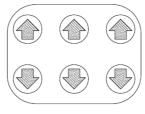






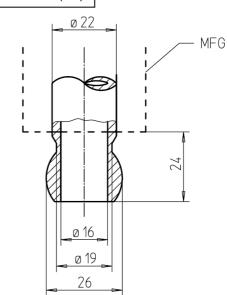


SK FC

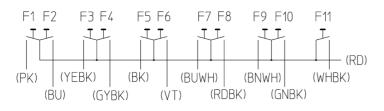




Standard Tube (TS)



Switch Layout Diagram

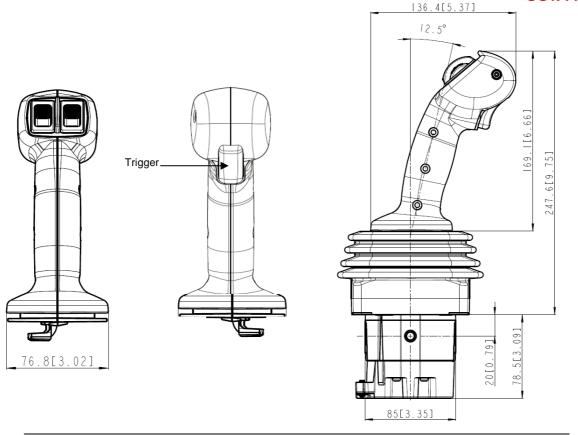


F3, F4 SK 11F only

F9, F10, F11 SK 9F/ 11F only

MFG S4





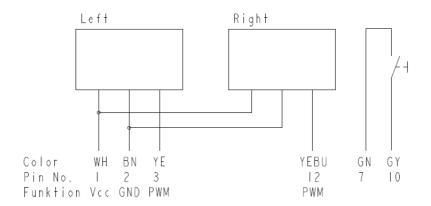
Standard cable (CS): Typ: AWG 20

Length: 700 mm (from end of tube) inclusive connector

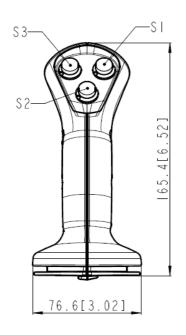
Connector: Deutsch DT04 - I2P

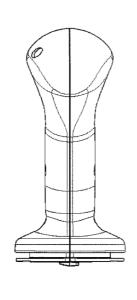
Switch Layout Diagram

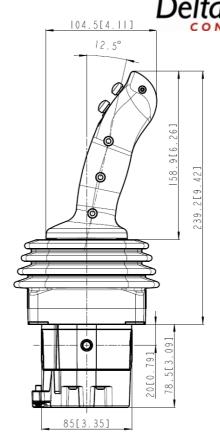
Example for version with 2 AR4 and trigger



MFG S7







Standard cable (CS):

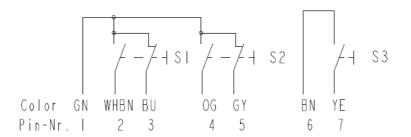
Typ: AWG 20

Length: 700 mm (from end of tube) inclusive connector

Connector: Deutsch DT04 - I2P

Switch Layout Diagram

Example for version with 1 AR4 and 1 pushbutton





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