

### Description

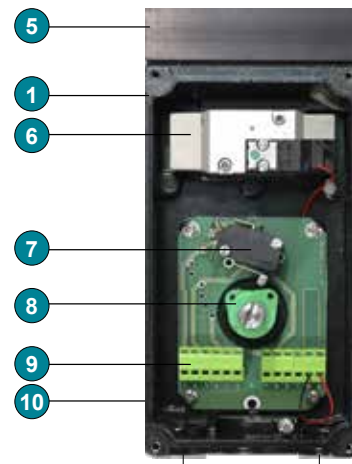
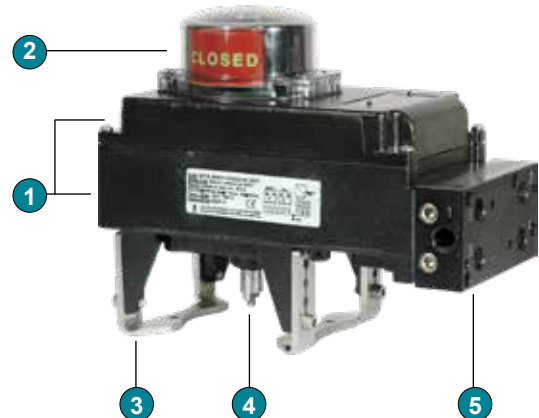
The multi function box is a limit switch box with integrated 5/2 solenoid valve for direct mounting on pneumatic actuators IA050-IA600. The mounting brackets can be used for all standard NAMUR (VDI/VDE3845) top mounting hole spacing 80x30mm and 130x30mm and standard NAMUR shaft heights 20, 30, 40 and 50mm.

### Product features

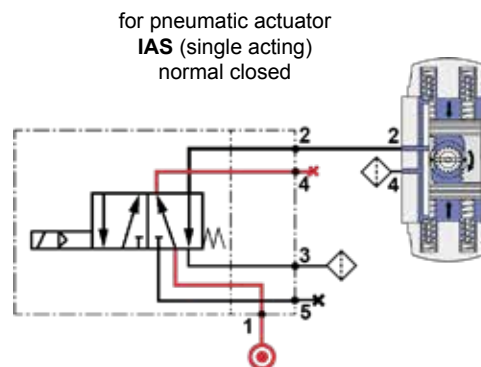
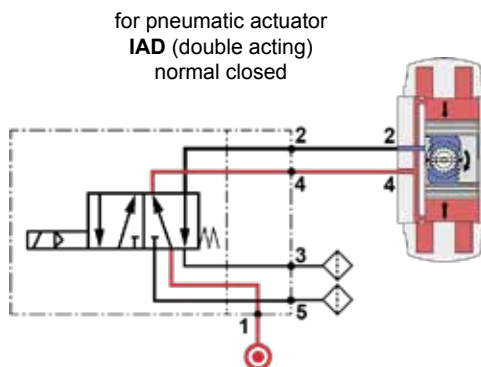
- **Supply pressure** 2,5 - 8 bar
- **Supply fluids** Filtered air or neutral gas, lubricated or dry
- **Solenoid valve** Qn = 750 l/min (at 6 bar supply pressure)
- **Weather proof** IP67
- **Temperature** -5°C ... +50°C or maximum temperature of the installed limit switch

### Construction

1	Housing base and cover	Aluminium, Epoxy coated
2	3D position indicator	Polycarbonate clear, UV resistant
3	NAMUR mounting bracket	Stainless steel
4	Shaft	Stainless steel
5	Pneumatic manifold	Aluminium, hard-coat anodised
6	5/2or 5/3 solenoid valve	Aluminium
7	Limit switches 1x ON, 1x OFF	see keycode
8	2 independent adjustable cams	
9	Terminal strip	
10	Cable entry M20x1,5	



### Pneumatic connection:



1	Air supply connection
2+4	Connections to pneumatic actuator
3+5	Exhaust connections for damper / trottle



Type code

MFB .	WR	01	2	0	0	2	A	1	6	C	
		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Type MFB	WR	Execution with 3D position indicator (standard)	
	WY	Execution with flat position indicator	
	WM	Execution without position indicator	
② Limit switch type	01	electromech SPDT silver plated contacts	max. 5A@250VAC - 3A@24VDC min 50mA@250VAC - 50mA@24VDC
	02	electromech SPDT gold plated contacts hermetically sealed	max. 3A@250VAC - 1A@24VDC min 5mA@250VAC - 1mA@24VDC
	03	electromech SPDT gold plated contacts	max. 3A@250VAC - 1A@24VDC min 5mA@250VAC - 1mA@24VDC
	20	Proximity NAMUR P+F NJ4 12GK N	2 wire not amplified Ex II 2 G EEx ia IIC T6
	24	Proximity NAMUR P+F NJ2 12GK N	2 wire not amplified Ex II 2 G EEx ia IIC T6
	39	Proximity NAMUR P+F NJ2 12GK SN	2 wire not amplified Ex II 2 G/D EEx ia IIC T6
	60	Proximity NAMUR P+F SJ 3.5N	2 wire not amplified Ex II 2 G/D EEx ia IIC T6
	62	Proximity NAMUR P+F SJ 3.5SN	2 wire not amplified Ex II 2 G/D EEx ia IIC T6
	70	Proximity NAMUR P+F NJ2 V3 N	2 wire not amplified Ex II 2 G/D EEx ia IIC T6
	C3	Proximity SPST bifurcated inert gas hermetically sealed	max. 1,5A@120VAC - 0,5A@24VDC (resistive / inductive)
	C4	Proximity SPDT inert gas hermetically sealed	max. 1A@120VAC - 1A@24VDC - max. 25Watt
	32	Proximity NO P+F NBN4 12GM40 Z0	2 wire amplified, 5-60VDC, 2-100mA
	73	Proximity PNP NO P+F NBB2 V3 E2	3 wire amplified 10-30VDC, 100mA
	75	Proximity NO / NC programmable IFM IS5026	2 wire amplified 5-36VDC, 200mA
	83	Proximity NO P+F NBB3-V3-Z4	2 wire amplified 5-60VDC, 100mA
	91	4-20mA Transmitter	10-30VDC, direct - reverse action
ASI	AS-i Communication card	24VDC, 2 digital input, 1 digital output	
③ Switch quantity	2	1-4 depends on switch type (standard 2 pcs)	
④ Terminal strip (depends on switch type)	0	Standard PCB (9 poles)	
	2	Blue PCB (6 poles)	
	7	Cage clamp blue (6 poles)	
⑤ Housing color	0	Black	
⑥ Cable entry	2	M20x1,5 (2x)	
⑦ Mounting bracket	A	Integral mounting kit NAMUR	
⑧ Solenoid valve	1	5 ways 2 positions, 1 solenoid (standard)	
	2	5 ways 2 positions, 2 solenoids	
	3	5 ways 3 positions, 2 solenoids (center position closed)	
⑨ Solenoid valve coil voltage	2	12VDC (2,3W)	
	3	24VDC (2,3W)	
	4	24VAC (2,8VA)	
	5	110VAC (2,8VA)	
	6	230VAC (2,8VA)	
	⑩ Pneumatic connections	C	1/4" BSP (standard)
	D	1/4" BSP with 3 pressure gauges 1/8"	
	A	1/4" NPT	
	B	1/4" NPT with 3 pressure gauges 1/8"	

Dimensions

