MFE MULTIFUNCTION ERGONOMIC HANDLES **AND KNOBS**



HANDLES AND KNOBS

INTRODUCTION

The handles and knobs included in this catalogue are available for fitting either to the extensive range of our pilot valve or alternatively as a separate item for fitting to other type of product.

The materials are chosen to be suitable for either internal or external use and are resistant to ultra-violet effects. They are also suitable for a wide range of other environmental conditions.

The standard straight ergonomic handle is available with a range of switches and push-buttons, while the MFE handle range is available with a range of switches and push buttons to suit different operating and environmental conditions.

The MFE handle range can be configured to suit either left hand or right hand operation.

Different circuit arrangements can be accommodated within the handle and the wiring can be built into connectors to customer specifications.

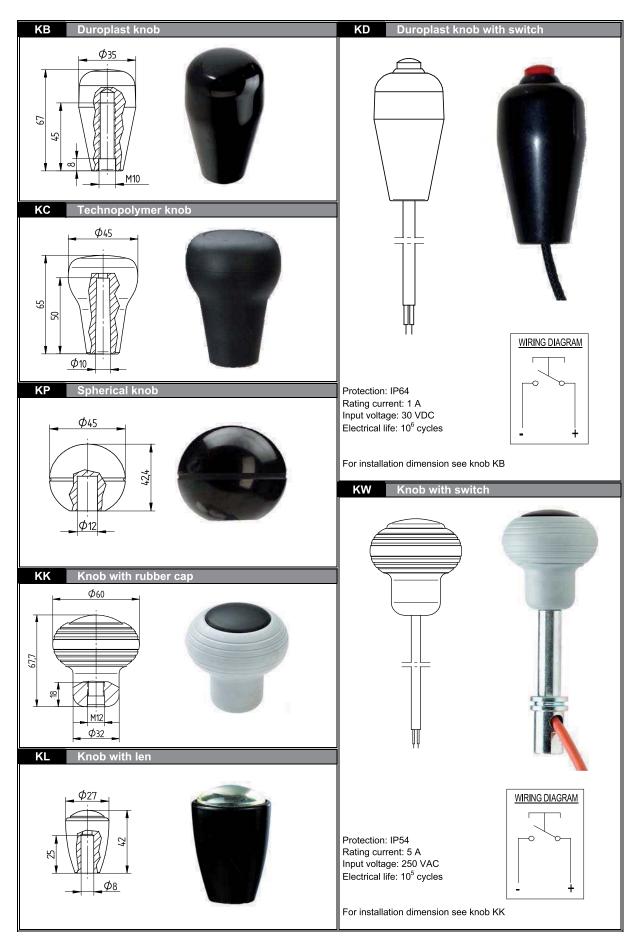
BENEFITS

- Range of knobs for individual lever control
- · Range of straight levers, with and without switches, for dual axis controls
- Extensive range of stylish multi-functional lever options
- Extensive range of electrical switch and button options
- Adaptable to both Hansa-Tmp and other manufacturers equipment
- · Circuits and connectors to customer requirements
- · Switch options allow left hand or right hand operation
- Tolerant many environmental conditions
- · High durability, low maintenance

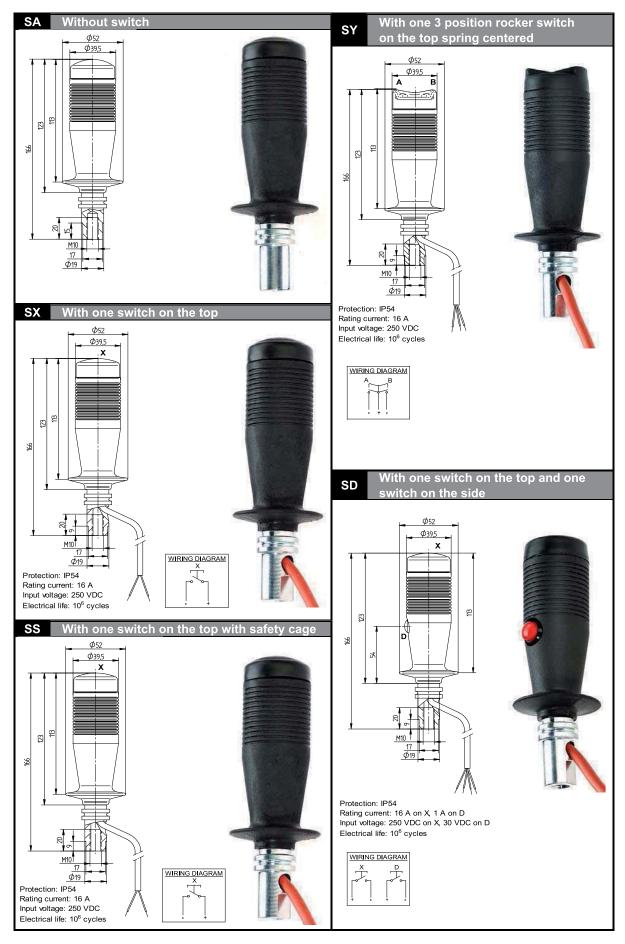
MODEL CODING

K-**K SERIES KNOBS S SERIES ERGONOMIC** KB SA = Handle without electric switch Duroplast Knob KC = Technopolymer knob SD = Handle with electric switch KD SS = Handle with electric switch to close = Duroplast knob with switch and safety button **KK** = Knob with rubber cap SX = Handle with electric switch to close KL = Knob with len SY = Handle with electric switch dual KP = Spherical knob rocker type KW = Knob with switch

KNOBS - TECHNICAL DATA

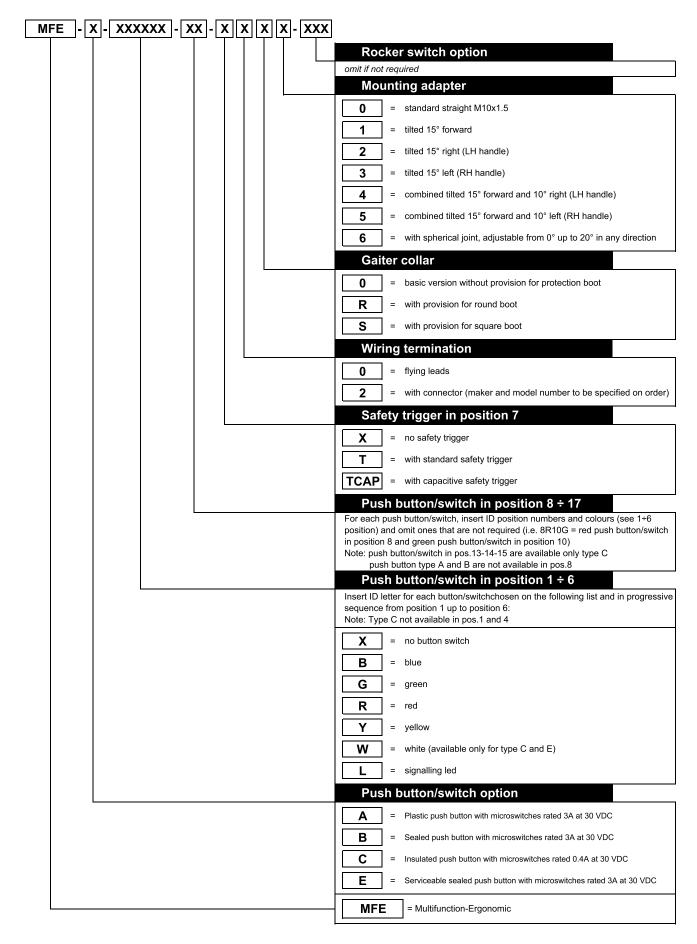


STRAIGHT HANDLES - TECHNICAL DATA





MULTIFUNCTION ERGONOMIC HANDLES - MODEL CODING



MULTIFUNCTION ERGONOMIC HANDLES - PUSHBUTTONS TYPE

PLASTIC PUSH BUTTON

Protection: IP67 Rating current: 3 A

Input voltage range 30 VDC Electrical life: 10⁶ cycles





SEALED PUSH BUTTON

Protection: IP67 Rating current: 3 A

Input voltage range 30 VDC Electrical life: 10⁶ cycles





C ISOLATED PUSH BUTTON

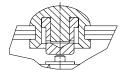
Protection: IP67 Rating current: 0,4 A Input voltage range 30 VDC Electrical life: 10⁶ cycles





SEALED SERVICEABLE PUSH BUTTON

Protection: IP67 Rating current: 3 A Input voltage range 30 VDC Electrical life: 10⁶ cycles

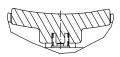




SAFETY TRIGGER

Protection: IP67 Rating current: 3 A

Input voltage range 30 VDC Electrical life: 10⁶ cycles





TCAP CAPACITIVE SAFETY TRIGGER

Protection: IP54 Rating current: 2,6 A

Input voltage range 10-30 VDC Electrical life: 3x10⁶ cycles

EMC tested



MULTIFUNCTION ERGONOMIC HANDLES - ROCKER SWITCH OPTIONS

S TYPE Waterproof rocker switch

R TYPE

Long life rocker switch

Protection: IP68

Rating current: 10A (28 VDC)

Life: 5x10⁴ Cycles

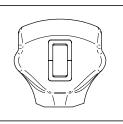


Protection: IP67

Rating current: 0.25A (28 VDC)

Life: 10⁶ Cycles

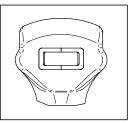




Vertical mounted

S1B: IP68 3 Position momentary rocker switch **S2B**: IP68 3 position latched rocker switch

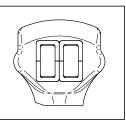
R1B: Long life position momentary rocker switch **R2B**: Long life 3 position latched rocker switch



Horizontal mounted

S1A: IP68 3 Position momentary rocker switch **S2A**: IP68 3 position latched rocker switch

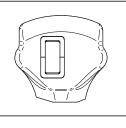
R1A: Long life position momentary rocker switch **R2A**: Long life 3 position latched rocker switch



Two vertical mounted

S4A: IP68 3 Position momentary rocker switch **S4B**: IP68 3 position latched rocker switch

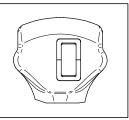
R4A: Long life position momentary rocker switch **R4B**: Long life 3 position latched rocker switch



Vertical mounted left offset

\$1C: IP68 3 Position momentary rocker switch **\$2C**: IP68 3 position latched rocker switch

R1C: Long life position momentary rocker switch **R2C**: Long life 3 position latched rocker switch

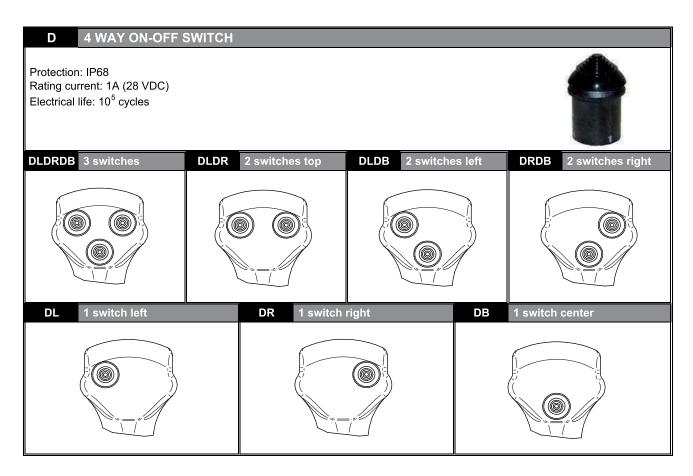


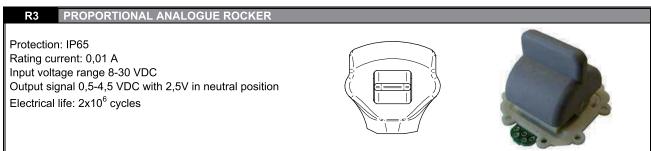
Vertical mounted right offset

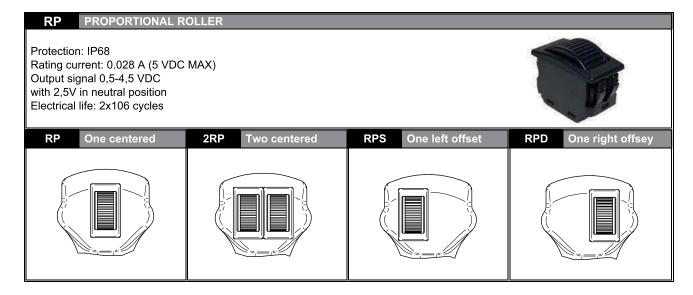
S1D: IP68 3 Position momentary rocker switch **S2D**: IP68 3 position latched rocker switch

R1D: Long life position momentary rocker switch **R2D**: Long life 3 position latched rocker switch

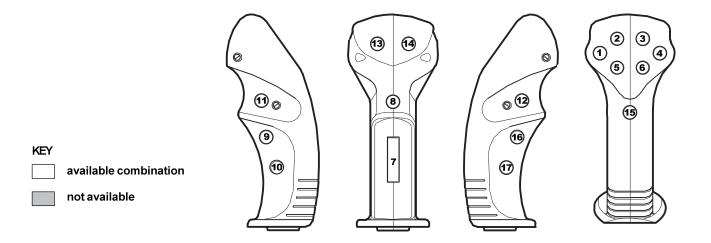
MULTIFUNCTION ERGONOMIC HANDLES - OTHER SWITCH OPTIONS







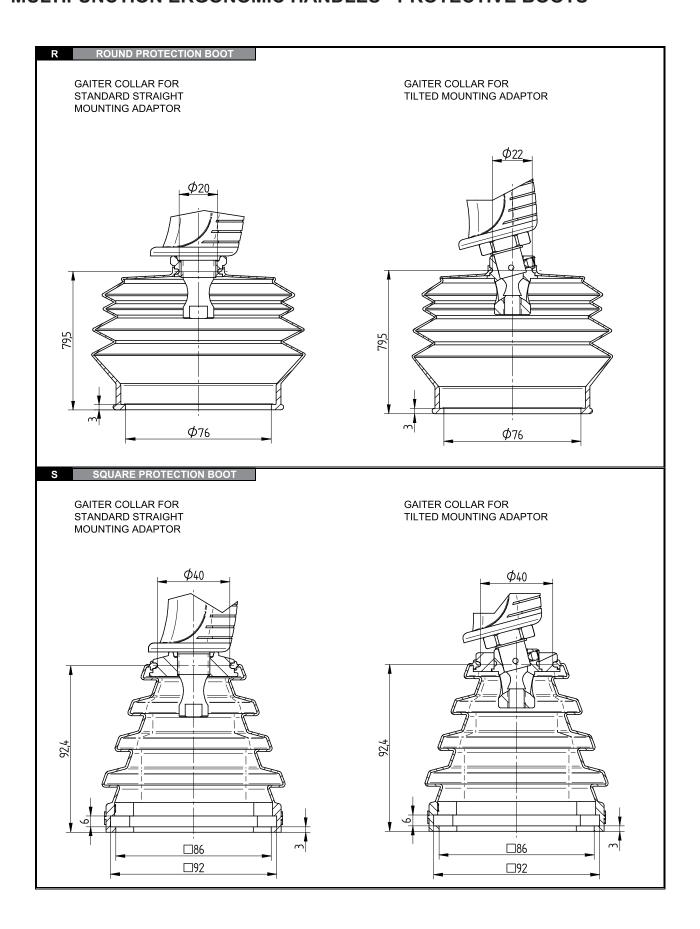
MULTIFUNCTION ERGONOMIC HANDLES - COMPATIBILITY TABLE



			PUSH BUTTONS (SEE PAGE 6) ON-OFF ROCKER SWITCH POSITIONS (SEE PAGE 7)														4 WAY SWITCH POSITIONS (SEE PAGE 8)								PROPORTIONAL ROCKER (SEE PAGE 8)						
		1 :	2 3	4	5	6	7 8	9	10	11	12	13 1	4 1	5 16	17	S(R)1B S(R)2B	S(R)4A S(R)4B		S(R)1D S(R)2D	DLDRDB	DLDR	DLDB	DRDB	ė	DR	DB			2RP	RPS	RPD
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PROPORTIONAL ROLLER (SEE PAGE 8)	RP																														
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^{*} AVAILABLE ONLY TYPE A

MULTIFUNCTION ERGONOMIC HANDLES - PROTECTIVE BOOTS



MULTIFUNCTION ERGONOMIC HANDLES - MOUNTING ADAPTERS

