

Manual pilot device SM2 Ø 22

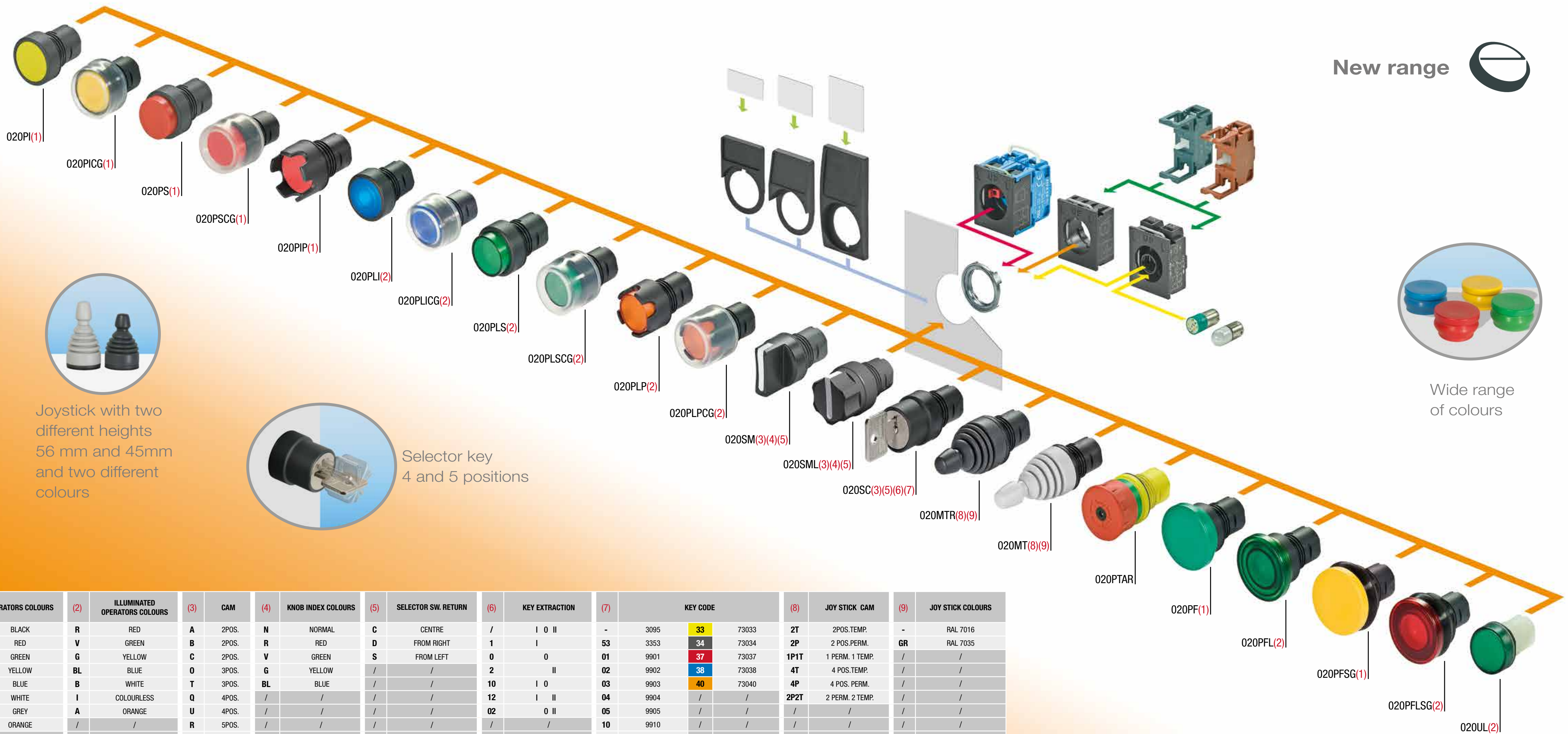
New range



WE ARE NOT AFRAID OF LOW
TEMPERATURES

-40 °C





New range



Wide range of colours

(1)	OPERATORS COLOURS	(2)	ILLUMINATED OPERATORS COLOURS	(3)	CAM	(4)	KNOB INDEX COLOURS	(5)	SELECTOR SW. RETURN	(6)	KEY EXTRACTION	(7)	KEY CODE			(8)	JOY STICK CAM	(9)	JOY STICK COLOURS
N	BLACK	R	RED	A	2POS.	N	NORMAL	C	CENTRE	/	I 0 II	-	3095	33	73033	2T	2POS.TEMP.	-	RAL 7016
R	RED	V	GREEN	B	2POS.	R	RED	D	FROM RIGHT	1	I	53	3353	34	73034	2P	2 POS.PERM.	GR	RAL 7035
V	GREEN	G	YELLOW	C	2POS.	V	GREEN	S	FROM LEFT	0	0	01	9901	37	73037	1P1T	1 PERM. 1 TEMP.	/	/
G	YELLOW	BL	BLUE	O	3POS.	G	YELLOW	/	/	2	II	02	9902	38	73038	4T	4 POS.TEMP.	/	/
BL	BLUE	B	WHITE	T	3POS.	BL	BLUE	/	/	10	I 0	03	9903	40	73040	4P	4 POS. PERM.	/	/
B	WHITE	I	COLOURLESS	Q	4POS.	/	/	/	/	12	I II	04	9904	/	/	2P2T	2 PERM. 2 TEMP.	/	/
GR	GREY	A	ORANGE	U	4POS.	/	/	/	/	02	0 II	05	9905	/	/	/	/	/	/
A	ORANGE	/	/	R	5POS.	/	/	/	/	/	/	10	9910	/	/	/	/	/	/
/	/	/	/	V	5POS.	/	/	/	/	/	/	16	9916	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	19	9919	/	/	/	/	/	/



COMPLIANCE WITH STANDARDS

APPROVALS

CLIMATIC PROTECTION

TEMPERATURE LIMITS

OPERATING POSITIONS

SHOCK RESISTANCE

VIBRATION RESISTANCE

ALTITUDE OF USE

PROTECTION DEGREE

ELECTRICAL PROTECTION

TIGHTENING TORQUE

TERMINAL SCREWS

ACTIVATING FORCE

MECHANICAL DURABILITY

POLLUTION DEGREE

OPERATING FREQUENCY

FIXING DIMENSIONS

CONTACT BLOCKS CONFIGURATION

IEC 947-5-1. EN 60947 - 5 - 1. VDE 0660 PART 200. ASE 0119. ASE 1003. BS 4794. CSA C22-2 N° 14. UL 508. NEMA. CENELEC EN 50007

RINA. CSA. UL

In normal functioning, T.C. all climates.

Functioning $\geq -35^{\circ}\text{C} \div \leq +70^{\circ}\text{C}$ - Storage $\geq -40^{\circ}\text{C} \div \leq +75^{\circ}\text{C}$

All positions $\leftrightarrow \uparrow \downarrow$

11 ms duration with 50g, form 1/2 sinusoid in compliance with IEC 68 - 2 - 27

16 g. $40 \geq \div 500 \leq \text{Hz}$ in conformity with IEC 68 - 2 - 64

$\leq 3,000 \text{ mt.}$

Normal, illuminated, lamp, selector switches IP 66 - rubber cap buttons and joysticks IP 68 according to IEC EN 60529 - IP69K according to DIN 40050

Class II double insulation in conformity with IEC 536.

Operator fixing ring $3 \div 3,5 \text{ Nm}$ - Terminal screws $1 \div 1,2 \text{ Nm}$.

Combined Phillips head Ph2 steel zinc plated screws / stainless steel screws (E10AU / E01AU) versions

Switch with contact NO 5 N - Additional contacts: NO 1,0 N - NC 1,5 N

Push buttons normal, illuminated 3 million operations - Selector switches, joysticks 1 million operations - Emergency stop. Pb, illuminated selector sw., Push - push Pb 500.000 operations.

Class 3 according to DIN VDE 0110

1000 operation cycles/hour.

Panel with thickness $1 \div 6 \text{ mm}$ - Holes in conformity with CEI EN 60947 - 5 - 1

Push buttons, Selector sw. n° 8 blocks max - Emergency stop Pb, joysticks n° 4 blocks max, illuminated selector sw. n° 2 blocks max.



RATED INSULATION VOLTAGE

INSULATION CLASS

SHORT CIRCUIT PROTECTION

RATED THERMAL CURRENT (ITH)

ELECTRICAL PERFORMANCES

690 V CA/CC

C Group in conformity with VDE 0110

Fuses DIAZED 10A operating class gL/gG shape D II second IEC 269-3-1

10A open space 25°C - 6A closed space 60°C .

In conformity with IEC 947-5-1

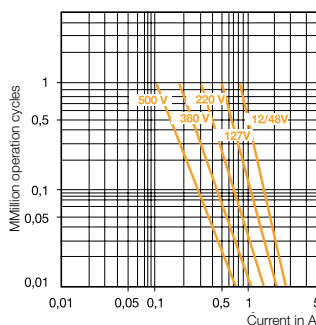
cat AC15

cat DC13

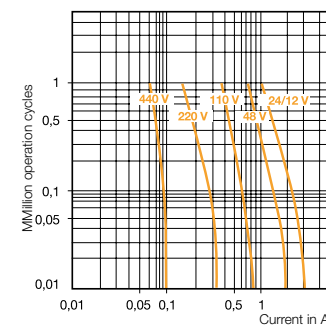
Tension Ue	V	24*	48	60	110*	220	380	400*	500	600	Tension Ue	V	24	48	60	110	220
Current Ie	A	10	8	6	6	3	2	1,5	1,5	1,2	Current Ie	A	5	2,7	2	1,1	0,55

In conformity with UL - CSA: A600 - P300

Alternated current $50 \div 60\text{Hz}$ cat AC15



Direct Current cat DC 13



CONTACT RESISTANCE

TERMINALS PROTECTION

TERMINALS

TERMINALS IDENTIFICATION

CONTACT PERFORMANCES

CONTACTS TRAVEL AND SWITCHING POINTS

$\leq 25\text{m}\Omega$ In conformity with IEC 255.7 category 3

IP2X in conformity with IEC EN 60529

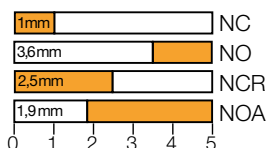
Screw type terminal with retained clamp. Prepared (open). Combined head screw DIN 7962 - Z2

Closing capacity: $\geq 1 \times 0,5 \text{ mm}^2$, $\leq 2 \times 2,5 \text{ mm}^2$ - Faston tongue 6,5 mm - Solder foot $0,8 \times 0,8 \text{ mm}$

In conformity with DIN EN 50013 - 1ST number, assembling order of connection flange.

2ND number, element contact function, 1 - 2 NC, 3 - 4 NO

Slow action, sliding autocleaning, positive action, NC \rightarrow



normal close normal open

POSITIVE TRIPPING FORCE

OPERATING SPEED

BULB SOCKET

BULB DURABILITY

15N normal push button. 40N mushroom push button

max 20 mm/s min 10mm/s

BA9s base for; incandescence, neon, multiled.

Recommended power: indicator light 2.6W - bulbs illuminated pushbuttons, selector 1.2W.

Incandescence $\leq 1,000 \text{ h}$ - Neon $\leq 3,000 \text{ h}$ - Multiled $\geq 50,000 \text{ h}$

New range

rgonomic



legant

fficient



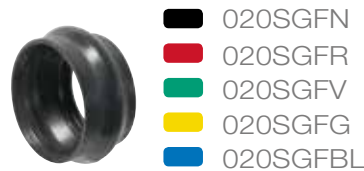
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PROTECTION SYSTEMS



MUSHROOM RUBBER PROTECTION



PUSH BUTTON DIFFUSER



PROTECTION SYSTEMS



RUBBER CAP

