C-2000

Special Operators 600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Boot is nitride rubber, check for application suitability. For optional silicone boot, contact factory for availability.

Selection Process

Select						
operator below	+	Select contact block(s) from page 9-93	+	Select nameplate, if required, from pages 9-95 to 9-97	=	Complete Unit











Section 9

Special Operators

Joysticks

			Mechanical	Product	
Position Type	Release Type	Operator Style	Interlock	Number	
3-Position	Maintained All Positions	Round Polished Chrome	No	P9CMN2F	
3-Position	Maintained All Positions	Round Polished Chrome	Yes	P9CMB2F	_
3-Position	Maintained All Positions	Round Satin Chrome	No	P9MMN2F	
3-Position	Maintained All Positions	Round Satin Chrome	Yes	P9MMB2F	
3-Position	Maintained All Positions	Round Engineered Plastic	No	P9XMN2F	_
3-Position	Maintained All Positions	Round Engineered Plastic	Yes	P9XMB2F	
3-Position	Momentary All Positions	Round Polished Chrome	No	P9CMN2T	
3-Position	Momentary All Positions	Round Polished Chrome	Yes	P9CMB2T	
3-Position	Momentary All Positions	Round Satin Chrome	No	P9MMN2T	
3-Position	Momentary All Positions	Round Satin Chrome	Yes	P9MMB2T	
3-Position	Momentary All Positions	Round Engineered Plastic	No	P9XMN2T	_
3-Position	Momentary All Positions	Round Engineered Plastic	Yes	P9XMB2T	_
3-Position	Up Momentary—Down Maintained	Round Polished Chrome	No	P9CMN2A	
3-Position	Up Momentary—Down Maintained	Round Polished Chrome	Yes	P9CMB2A	
3-Position	Up Momentary—Down Maintained	Round Satin Chrome	No	P9MMN2A	
3-Position	Up Momentary—Down Maintained	Round Satin Chrome	Yes	P9MMB2A	
3-Position	Up Momentary—Down Maintained	Round Engineered Plastic	No	P9XMN2A	
3-Position	Up Momentary—Down Maintained	Round Engineered Plastic	Yes	P9XMB2A	_
3-Position	Up Maintained—Down Momentary	Round Polished Chrome	No	P9CMN2B	
3-Position	Up Maintained—Down Momentary	Round Polished Chrome	Yes	P9CMB2B	
3-Position	Up Maintained—Down Momentary	Round Satin Chrome	No	P9MMN2B	
3-Position	Up Maintained—Down Momentary	Round Satin Chrome	Yes	P9MMB2B	
3-Position	Up Maintained—Down Momentary	Round Engineered Plastic	No	P9XMN2B	
3-Position	Up Maintained—Down Momentary	Round Engineered Plastic	Yes	P9XMB2B	
5-Position	Maintained All Positions	Round Polished Chrome	No	P9CMN4F	
5-Position	Maintained All Positions	Round Polished Chrome	Yes	P9CMB4F	
5-Position	Maintained All Positions	Round Satin Chrome	No	P9MMN4F	
5-Position	Maintained All Positions	Round Satin Chrome	Yes	P9MMB4F	
5-Position	Maintained All Positions	Round Engineered Plastic	No	P9XMN4F	
5-Position	Maintained All Positions	Round Engineered Plastic	Yes	P9XMB4F	
5-Position	Momentary All Positions	Round Polished Chrome	No	P9CMN4T	
5-Position	Momentary All Positions	Round Polished Chrome	Yes	P9CMB4T	
5-Position	Momentary All Positions	Round Satin Chrome	No	P9MMN4T	
5-Position	Momentary All Positions	Round Satin Chrome	Yes	P9MMB4T	
5-Position	Momentary All Positions	Round Engineered Plastic	No	P9XMN4T	
5-Position	Momentary All Positions	Round Engineered Plastic	Yes	P9XMB4T	

Cams

Note selection and position of contact block(s) for cam.

3-Position Joystick

		Screw Terminal Contact Block				
Position			Product No. and	Mounting Position		
Up	Center	Down	Position 1	Position 2		
Χ	0	0	P9B11VN			
0	0	X	PARTINI	_		
0	0	×		P9B11VN		
X	0	0	_	PARTINI		

5-Position Joystick

Position					al Contact Block Mounting Position	
Up	Right	Center	Down	Left	Position 1	Position 2
)	X	0	0	0	P9B11VN	
)	0	0	0	X	PADITAIN	_
)	0	0	X	0		DOD111/N
<	0	0	0	0	_	P9B11VN





3-Position Joystick

5-Position Joystick

Operator Positions



Contact Block Positions (viewed from rear)



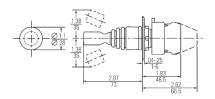
Outlines and Dimensions: See page 9-91 Accessories: See page 9-102 to 9-111 Technical Data: See page 9-119 to 9-125

Control Catalog

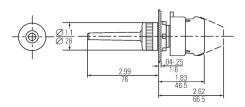
Rev. 4/16 Prices and data subject to change without notice

Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators C-2000

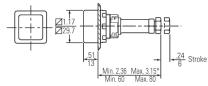
Special Operators
Outlines and Dimensions (in. mm) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC



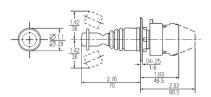
Round Joysticks



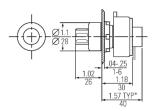
Round Wobble Stick



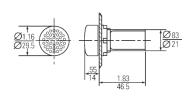
Square Reset Push Button



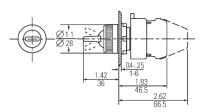
Round Joystick With Interlock



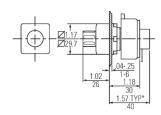
Round Potentiometer Operator



Round Buzzer

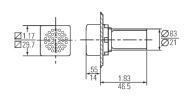


Round Toggle Switch

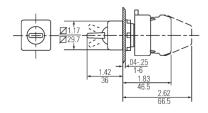


Square Potentiometer¹ Operator

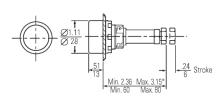




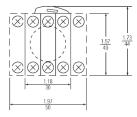
Square Buzzer



Square Toggle Switch



Round Reset Push Button



Typical Back Side View



Section 9

Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Power Supplies and Contact Blocks 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

Resistor Power Supplies AC/DC

		Lamp		
Bulb	Terminal	Operational		Product
Туре	type	Mode	Voltage	Number
Incandescent	Screw Terminal	Steady	110-120V	P9PRNVJ
Incandescent	Screw Terminal	Steady	220-240V	P9PRNVN
Incandescent	Screw Terminal	Steady with Diode	220-240V	P9PRDVN
Incandescent	Screw Terminal	Steady Long Life	110-120V	P9PRLVJ
Incandescent	Screw Terminal	Panel Test	220-240V	P9PRTVN

Full-Voltage Power Supplies Low-Level Energy (Reed)

		Lamp			
Bulb	Terminal	Operational		Product	
Туре	type	Mode	Voltage	Number	
Incandescent	Quick-Connect Terminal	Stendy	_	раронғ1	

 $^{^{1}\}mathrm{For}$ use with Reed Logic flange only.

Contact Blocks

Terminal type	Contact Block Type	Contact Configuration	Product Number
Screw Terminal	Standard	1NO	P9B10VN
Screw Terminal	Standard	1NC	P9B01VN
Screw Terminal	Standard	1NO-1NC	P9B11VN
Screw Terminal	Standard	2NO	P9B20VN
Screw Terminal	Standard	2NC	P9B02VN
Screw Terminal	Early Make	1NO	P9B10VA
Screw Terminal	Late Opening	1NC	P9B01VR
Screw Terminal	Base Mount	1NO	P9B10BN
Screw Terminal	Base Mount	1NC	P9B01BN
Quick-Connect Terminal	Standard	1NO	P9B10FN
Quick-Connect Terminal	Standard	1NC	P9B01FN
Quick-Connect Terminal	Reed	1NO	P9B10FH ²
Quick-Connect Terminal	Reed	1NC	P9B01FH ²

²Requires special flange (P9ACFSM). Order on page 9-110.



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Nameplates 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

Standard Metal

Nameplate Marking	Product Number	
Auto	P9ACP2N219	
Auto Cut	P9ACP2N272	
Auto Return	P9ACP2N273	
CLOSE	P9ACP2N205	
Control Off	P9ACP2N262	
Control On	P9ACP2N286	
Cycle On	P9ACP2N266	
DECREASE DOWN	P9ACP2N274 P9ACP2N203	
EMERGENCY STOP (Red)	P9ACP2R229	
Emergency Stop Pull to Reset (RED)	P9ACP2R230	
FAST	P9ACP2N208	
Fault	P9ACP2N218	
FORWARD	P9ACP2N214	
Hand	P9ACP2N220	
HIGH	P9ACP2N221	
IN INCL	P9ACP2N275	
INCREASE	P9ACP2N209	
INCREASE JOG	P9ACP2N278 P9ACP2N210	
LEFT	P9ACP2N222	
LOW	P9ACP2N223	
LOWER	P9ACP2N217	
Off (Red)	P9ACP2R213	
ON	P9ACP2N212	
OPEN	P9ACP2N206	
OUT	P9ACP2N293	
Overload Tripped	P9ACP2N226	
POWER ON	P9ACP2N240	
Push-to-Stop/Pull-to-Start	P9ACP2N241	
RAISE RESET	P9ACP2N216 P9ACP2N291	
RETURN	P9ACP2N242	
REVERSE	P9ACP2N215	
RIGHT	P9ACP2N224	
RUN	P9ACP2N211	
Safe	P9ACP2N281	
SLOW	P9ACP2N207	
Spindle Closed	P9ACP2N294	
Spindle Open	P9ACP2N295	
START STOP (Park)	P9ACP2N202 P9ACP2R201	
STOP (Red) Stop Rotate-to-Reset	P9ACP2N228	
Sub SPD Closed	P9ACP2N296	
Sub SPD Open	P9ACP2N297	
TEST	P9ACP2N225	
UP	P9ACP2N204	
Feed Hold	P9ACP2N263	
FOR REV	P9ACP2N231	
HAND AUTO	P9ACP2N243	
HIGH LOW	P9ACP2N244	
H.P. Coolant	P9ACP2N290	
Inch Cut	P9ACP2N276	
Inch Return JOG FORWARD	P9ACP2N277 P9ACP2N279	
JOG REVERSE	P9ACP2N280	
JOG RUN	P9ACP2N245	
LEFT RIGHT	P9ACP2N246	
LOW HIGH	P9ACP2N247	
LOWER RAISE	P9ACP2N248	
OFF ON	P9ACP2N233	
OPEN CLOSE	P9ACP2N234	
RAISE LOWER	P9ACP2N249	
REV FOR	P9ACP2N250	
RUN JOG	P9ACP2N251	
SAFE RUN	P9ACP2N252	
SLOW FAST START CYCLE	P9ACP2N253	
START CYCLE Start Feed	P9ACP2N282 P9ACP2N283	
START JOG	P9ACP2N254	
	. 5.10. 2.1254	

Standard Metal (continued)

Nameplate Marking	Product Number	_
START STOP	P9ACP2N255	
Stop Cycle	P9ACP2N265	
Stop Feed	P9ACP2N264	
Stop Reset (Red)	P9ACP2R227	
STOP START	P9ACP2N232	_
UP DOWN	P9ACP2N256	_
OFF COOLANT ON	P9ACP2N257	
Auto Off Hand	P9ACP2N258	
FOR OFF REV	P9ACP2N239	-
FOR STOP REV	P9ACP2N259	_
HAND OFF AUTO	P9ACP2N261	_
JOG OFF RUN	P9ACP2N298	
JOG SAFE RUN	P9ACP2N267	
Local Off Remote	P9ACP2N237	
LOW OFF HIGH	P9ACP2N238	_
LOWER OFF RAISE	P9ACP2N268	_
MAN OFF AUTO	P9ACP2N269	
OPEN OFF CLOSE	P9ACP2N270	
SLOW OFF FAST	P9ACP2N271	_

Plastic Insert

Nameplate Marking	Product Number ¹	_
Auto	P9ACPBS219	
Auto Cut	P9ACPBS272	
Auto Return	P9ACPBS273	
CLOSE	P9ACPBS205	_
Control Off	P9ACPBS262	_
Control On	P9ACPBS286	_
Cycle On	P9ACPBS266	
DECREASE	P9ACPBS274	
DOWN	P9ACPBS203	_
EMERGENCY STOP (Red)	P9ACPBS229	_
Emergency Stop Pull to Reset (RED)	P9ACPBS230	_
FAST	P9ACPBS208	
Fault	P9ACPBS218	
FORWARD	P9ACPBS214	_
Hand	P9ACPBS220	_
HIGH	P9ACPBS221	_
IN	P9ACPBS275	
INCH	P9ACPBS209	
INCREASE	P9ACPBS278	
JOG	P9ACPBS210	_
LEFT	P9ACPBS222	_
LOW	P9ACPBS223	
LOWER	P9ACPBS217	
Off (Red)	P9ACPBS213	_
ON	P9ACPBS212	_
OPEN	P9ACPBS206	
OUT	P9ACPBS293	
Overload Tripped	P9ACPBS226	
POWER ON	P9ACPBS240	_
Push-to-Stop/Pull-to-Start	P9ACPBS241	_
RAISE	P9ACPBS216	_
RESET	P9ACPBS291	
RETURN	P9ACPBS242	
REVERSE	P9ACPBS215	_
RIGHT	P9ACPBS224	
RUN	P9ACPBS211	_
Safe	P9ACPBS281	
SLOW	P9ACPBS207	
Spindle Closed	P9ACPBS294	
Spindle Open	P9ACPBS295	
START	P9ACPBS202	
STOP (Red)	P9ACPBS201	
Stop Rotate-to-Reset	P9ACPBS228	
Sub SPD Closed	P9ACPBS296	
Sub SPD Open	P9ACPBS297	_
TEST	P9ACPBS225	

 $^{^{1}\}mathrm{For}$ use with plastic nameplate holders on page 9-96.



Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories

C-2000

Nameplates

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

Plastic Insert (continued)

Nameplate Marking	Product Number ¹	
UP	P9ACPBS204	
Feed Hold	P9ACPBS263	
FOR REV	P9ACPBS231	
HAND AUTO	P9ACPBS243	
HIGH LOW	P9ACPBS244	
H.P. Coolant	P9ACPBS290	
Inch Cut	P9ACPBS276	
Inch Return	P9ACPBS277	
JOG FORWARD	P9ACPBS279	
JOG REVERSE	P9ACPBS280	
JOG RUN	P9ACPBS245	
LEFT RIGHT	P9ACPBS246	
LOW HIGH	P9ACPBS247	
LOWER RAISE	P9ACPBS248	
OFF ON	P9ACPBS233	
OPEN CLOSE	P9ACPBS234	
RAISE LOWER	P9ACPBS249	
REV FOR	P9ACPBS250	
RUN JOG	P9ACPBS251	
SAFE RUN	P9ACPBS252	
SLOW FAST	P9ACPBS253	
START CYCLE	P9ACPBS282	
Start Feed	P9ACPBS283	
START JOG	P9ACPBS254	
START STOP	P9ACPBS255	
Stop Cycle	P9ACPBS265	
Stop Feed	P9ACPBS264	
Stop Reset (Red)	P9ACPBS227	
STOP START	P9ACPBS232	
UP DOWN	P9ACPBS256	
OFF COOLANT ON	P9ACPBS257	
Auto Off Hand	P9ACPBS258	
FOR OFF REV	P9ACPBS239	
FOR STOP REV	P9ACPBS259	
HAND OFF AUTO	P9ACPBS261	
JOG OFF RUN	P9ACPBS298	
JOG SAFE RUN	P9ACPBS267	
Local Off Remote	P9ACPBS237	
LOW OFF HIGH	P9ACPBS238	
LOWER OFF RAISE	P9ACPBS268	
MAN OFF AUTO	P9ACPBS269	
OPEN OFF CLOSE	P9ACPBS270	
SLOW OFF FAST	P9ACPBS271	

 $^{^{1}\}mathrm{For}$ use with plastic nameplate holders.

Plastic Insert

Nameplate Marking	Product Number ¹	_
Abrir	P9ACPBS506	
Adelente	P9ACPBS502	
Atras	P9ACPBS508	
Atras Adelante	P9ACPBS518	
Atras O Adelante	P9ACPBS519	
Bajar	P9ACPBS505	
Bajo	P9ACPBS514	
Cerrar	P9ACPBS501	
Defecto	P9ACPBS513	
Derecha	P9ACPBS509	
Emergencia	P9ACPBS516	
Izquierda	P9ACPBS504	
Manual	P9ACPBS503	
Marcha	P9ACPBS510	
Paro (Red)	P9ACPBS511	
Paro Marcha	P9ACPBS517	
Paro O Marcha	P9ACPBS520	
Rapido	P9ACPBS512	
Reame	P9ACPBS515	
Subir	P9ACPBS507	
_		

 $^{^{1}\}mathrm{For}$ use with plastic nameplate holders.

Plastic Nameplates with Blank Inserts

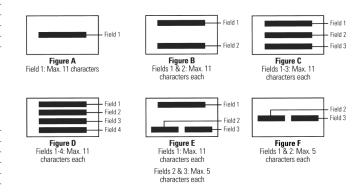
Nameplate Type	Operator Style	Nameplate Size	Product Number ²	
Plastic w/ Blank Inserts	Round Polished Chrome Round Satin Chrome	Standard	P9ARTBS	
	Round Engineered Plastic			
Plastic w/ Blank Inserts	Round Polished Chrome Round Satin Chrome	Jumbo	P9ARTBM	
	Round Engineered Plastic			
Plastic w/ Blank Inserts	Square Engineered Plastic	Standard	P9ASTBS	
Spare Blank Insert	Round Polished Chrome Round Satin Chrome Round Engineered Plastic	Standard	P9ACPBS	
Spare Blank Insert	Round Polished Chrome Round Satin Chrome Round Engineered Plastic	Jumbo	P9ARPBM	
Transparent Insert	Round Polished Chrome Round Satin Chrome Round Engineered Plastic	Standard	P9ACPTS	
Transparent Insert	Round Polished Chrome Round Satin Chrome Round Engineered Plastic	Jumbo	P9ARPTM	

 $^{^{2}\}mbox{Package}$ quantity is five, order in multiples of 5. Includes black holder with black/red reversible insert.

Plastic Nameplate Holders With Custom Engraved Inserts

Operator Style	Nameplate Size	Product Number
Round Polished Chrome	Standard	P9ARTBSEN
Round Satin Chrome		
Round Engineered Plastic		
Round Polished Chrome	Jumbo	P9ARTBMEN
Round Satin Chrome		
Round Engineered Plastic		
Square Engineered Plastic	Standard	P9ASTBSEN

For custom engraved engineered plastic nameplates, specify Figure corresponding to desired field configuration, characters desired for each field, and color (black or red) of field.



Legend for Custom Engraved Inserts

Blank Metal

Color	Product Number
Black	P9ACP2N
Red	P9ACP2R
Black	P9ACP3N
Red	P9ACP3R
	Black Red Black



Section 9

Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Accessories C-2000

Nameplates 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

Custom Engraved Metal

Max. Characters						
Color	Figure	Nameplate Size	per Field	Product Number		
Black	1	Standard	Field 1: 13	P9ACP2NBEN		
Black	2	Standard	Fields 1 & 2: 13 each	P9ACP2NCEN		
Black	3	Standard	Fields 1 & 2: 6 each	P9ACP2NFEN		
Black	4	Standard	Fields 1 & 3: 6 each,	P9ACP2NGEN		
			Fields 2: 13			
Black	5	Standard	Fields 1-4: 13 each	P9ACP2NHEN		
Black	7	Joystick	Fields 1 & 2: 17 each	P9ACP3NJEN		
Black	8	Joystick	Fields 1 & 2: 17 each;	P9ACP3NKEN		
			Fields 3 & 4: 4 each			
Red	1	Standard	Field 1: 13	P9ACP2RBEN		
Red	2	Standard	Fields 1 & 2: 13 each	P9ACP2RCEN		
Red	3	Standard	Fields 1 & 2: 6 each	P9ACP2RFEN		
Red	4	Standard	Fields 1 & 3: 6 each,	P9ACP2RGEN		
			Fields 2: 13			
Red	5	Standard	Fields 1-4: 13 each	P9ACP2RHEN		
Red	7	Joystick	Fields 1 & 2: 17 each	P9ACP3RJEN		
Red	8	Joystick	Fields 1 & 2: 17 each;	P9ACP3RKEN		
			Fields 3 & 4: 4 each			

For custom engraved metal nameplates, specify Figure corresponding to desired field configuration and characters desired for each field.

Yellow Emergency Round

Nameplate Marking	Nameplate Diameter	Product Number ¹	
Blank	59 mm	080XTGR	
Blank	78 mm	080XTG8	
Engraved	59 mm	080XTGR02	
EMERGENCY STOP	78 mm	080XTG802	

¹Package quantity is five, order in multiples of 5.



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 7



Figure 8





Blank and Yellow Emergency Stop

