

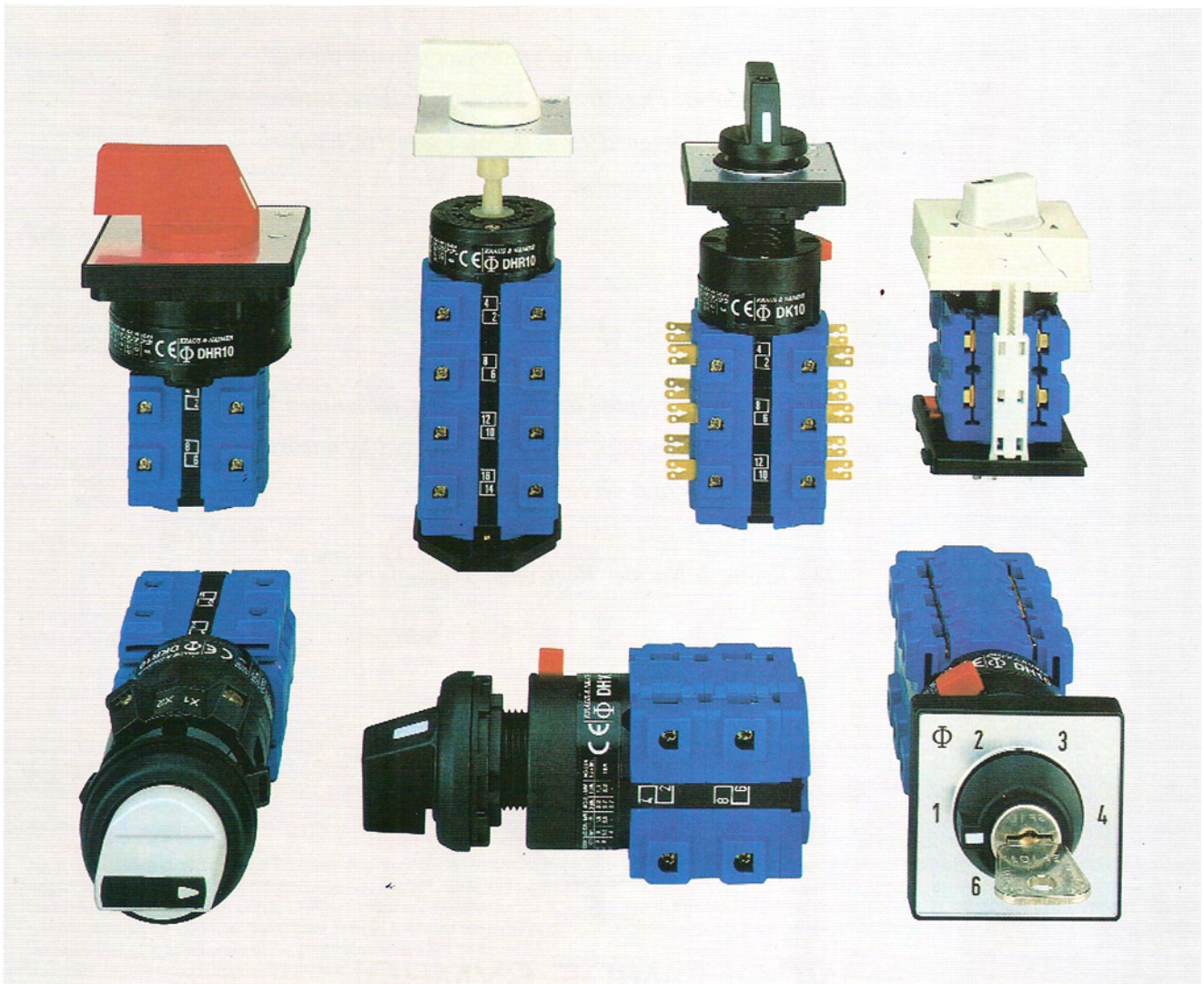


KRAUS & NAIMER
BLUE LINE SWITCHGEAR

SINCE 1907



Control Discrepancy Switch



KRAUS & NAIMER

The development of the Blue Line rotary switch, contactor and motor starter product ranges is based on more than seventy-five years experience by Kraus & Naimer in the design and manufacture of electrical switchgear. Kraus & Naimer pioneered the introduction of the cam operated rotary switch and continues to be recognized as the world leader in that product field.

BLUE LINE

Blue Line products are protected by numerous patents throughout the industrial world. They are built to national and international standards and designed to withstand adverse temperatures and climates.

Blue Line products are accepted and universally recognized for their quality and workmanship. They are supported by a worldwide sales and service organization.

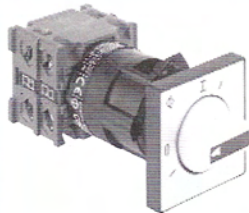
The Kraus & Naimer Registered Trademark



WORLDWIDE SYMBOL
FOR QUALITY SWITCHGEAR

Description	Code	For Switch Sizes			
		S00	S0	S1	S2

Control and Indicator Device (without Lamp)



For 1 lamp with socket BA 9s
Max. power 2,8 W

The control and indicator device includes a single hole mounting 30 mm with locking nut and can be supplied with the following front end assemblies:

Front ring (alternatively with add-on escutcheon plate),
Escutcheon plate 48 x 48 mm (alternatively with add-on escutcheon plate) or escutcheon plate 64 x 64 mm.

The operation may be as follows:

Turn to operate

Push-to-turn operation (interlock as control and alarm switch)

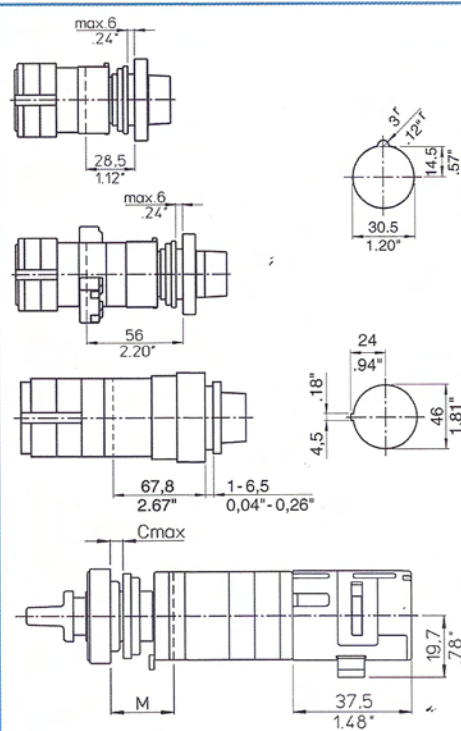
This type of version is available with 1 or 2 auxiliary contacts. Select between a contact system with a rigid contact bridge for excellent AC-15 making and breaking capabilities which is also available with gold contacts for use in aggressive environments or a H-bridge design with "cross-wire" contact system with gold-plated contacts for low voltages and currents.

Q110

Q110/F



Dimensions	mm	
	inch	

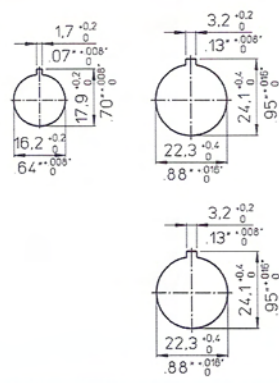


Q110 Escutcheon plates
48,0 x 48,0 mm
48,0 x 60,0 mm
64,0 x 64,0 mm
64,0 x 79,0 mm

Q110/F

Q100/A Escutcheon plate
51,8 x 51,8 mm

Q100B



Without interlock
M = 17,7 C = 5
.70 .20

With interlock
M = 19,5 C = 6,5
.77 .26

CH10A-G336*FT S0 Q110/F11....(A1 OR A2)

A1: Circular Type A2: Square Type

















<p>ESCUTCHEON PLATE</p> <p>POSITIONS</p>			SWITCH TYPE : CH10 ESCUTCHEON PLATE : A1 OR A2 MOUNTING: FT OPTIONAL EXTRAS : Q110/F FIRM: G336
AB A 240 255 270 285 300 315 330 345	E EB 0 15 30 45 60 75 90 105 120 135 150 165 180 195 210 225		HANDLE: DATE: SIGNED:

CH10A-G355*FT S0 Q110/F11....(A1 OR A2)

A1: Circular Type A2: Square Type

<p>ESCUTCHEON PLATE</p> <p>POSITIONS</p>			SWITCH TYPE : CH10 ESCUTCHEON PLATE : A1 OR A2 MOUNTING: FT OPTIONAL EXTRAS : Q110/F FIRM: G355
AB A 240 255 270 285 300 315 330 345	E EB 0 15 30 45 60 75 90 105 120 135 150 165 180 195 210 225		HANDLE: DATE: SIGNED:

International Standards and Approvals

Country	Authority	Mark or Standard					CH6	CH16	CHR6	
			CG4	CG4-1 CGD4-1	CG6	CG8	CH10 CH11 CH12 CH10B	CH16B	CHR10 CHR11 CHR12 CHR10B	CHR16 CHR16B
USA	Underwriters Laboratories	 ¹						●	●	
		 ² ₃	●	●	●	●	●	●		
		 ² ₃	●	●			●	●		
Canada	Canadian Standards Association	 ⁶	●	CG4-1	●	●	●	●	●	
		 ¹						●	●	
		 ² ₃	●	●			●	●		
Switzerland	Schweizerischer Elektrotechnischer Verein		●	● +	●	●	+	+	+	
Denmark	Danmarks Elektriske Materielkontrol		+	+	+	+	+	+	+	
Norway	Norges Elektriske Materielkontrol		+	+	+	+	+	+	+	
Sweden	Svenska Elektriska Materielkontrollanstalten		+	+	+	+	+	+	+	
Finland	Sähkötar-kastukeskus		+	+	+	+	+	+	+	
Austria	Österreichischer Verband für Elektrotechnik		+	+	+	+	+	+	+	
Federal Republic of Germany	Verband Deutscher Elektrotechniker	VDE 0660 ⁴	+	+	+	+	+	+	+	
Great Britain	British Standards Institution	BS EN 60947 ⁴	+	+	+	+	+	+	+	
International Electrical Commission (IEC) Recommendation		IEC 60947 ⁵	+	+	+	+	+	+	+	
China	China Quality Certification Centre	 ⁷ GB14048.3	●	CG4-1			CH10 CH10B	CHR10 CHR10B		
Russian Federation	GOST	 ⁷ CH01	●	● +	●	●	●	●	+	
Germanischer Lloyd			+	+	+	+	+	+	+	
Lloyds Register of Shipping			+	+	+	+	+	+	+	

● Switch approved + Switch conforms to requirements

¹Approved under the "Component Program" (UL-Recognized Industrial Component). File No. E35541, Category Control No. NLRV2 (U.S.) resp. NLRV8 (Canada).

²Approved under the "Listing Program". File No. E35541, Category Control No. NLRV (U.S.) resp. NLRV7 (Canada).

³Switch types CGD4-1, CH11, CH12, CHR11, CHR12 approved under the "Listing Program". File No. E60262, Category Control No. NRNT (U.S.) resp. NRNT7 (Canada).

⁴It is not required for Industrial Switchgear to bear a symbol but must conform to requirements. By stating the specific standard no. on the product the manufacturer declares that all requirements of the product standard are met.

⁵IEC does not operate an approval scheme.

⁶File No. 13002, Class No. 3211-05 resp. 4652-04.

⁷If this approval is required, please request when ordering.



KRAUS & NAIMER
GESELLSCHAFT M. B. H.

A-1181 WIEN . SCHUMANNGASSE 31-39 . POB 258
TEL: +43 1 404 06 . FAX: +43 1 404 06 255 . FN 124 765 d
www.krausnaimer.com . E-Mail: knw@krausnaimer.com



NADER PARDAZ CO.

Unit 12, 6 Floor, No.12, Bahar Shiraz St.,
Tehran, Iran

Telephone: (+98 21) 77631517,77631518

Fax: (+98 21) 77509555
