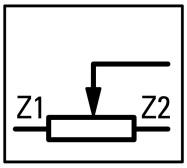
DATASHEET - M30C-FR*-*

Potentiometer, flat front, M30, 30.5 mm, P 0.5 W, Metal bezel

Part no.	**M30C-FR*-***
Catalog No.	**187081**
Alternate Catalog No.	**-**

Powering Business Worldwide™

Delivery program

RMQ design 			flat front
Part group reference (e.g. DIL)			M30
Mounting hole diameter	∅	mm	30.5
Basic function			Potentiometer
Single unit/Complete unit			Single unit
Description			3 individual screw terminals Accuracy of resistance value: ± 10% (linear)
Contact sequence			
Resistor			Selectable, → Note
Rated power	P	W	0.5
Degree of Protection			IP66
Front ring			Metal bezel
Connection to SmartWire-DT			no

Notes

When ordering, the type reference must include the following details:

* - *:	1. wildcard ≙ resistance values: 1K = 1 kΩ 2K2 = 2.2 kΩ 4K7 = 4.7 kΩ 10K = 10 kΩ 22K = 22 kΩ 47K = 47 kΩ 100K = 100 kΩ 470K = 470 kΩ 1M = 1 MΩ
* - *:	2nd wildcard ≙ Standard scale/inscription: X1000 without scale/inscription: "-"

Technical data

General

Lifespan, mechanical	Operations		25000
Degree of Protection			IP66
Ambient temperature			
Open		°C	-25 - +70
Tightening torque for terminal screw		Nm	0.5
shipping classification			DNV GL
			DNV Germanischer Lloyd

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	0
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0.5
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Please enquire
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

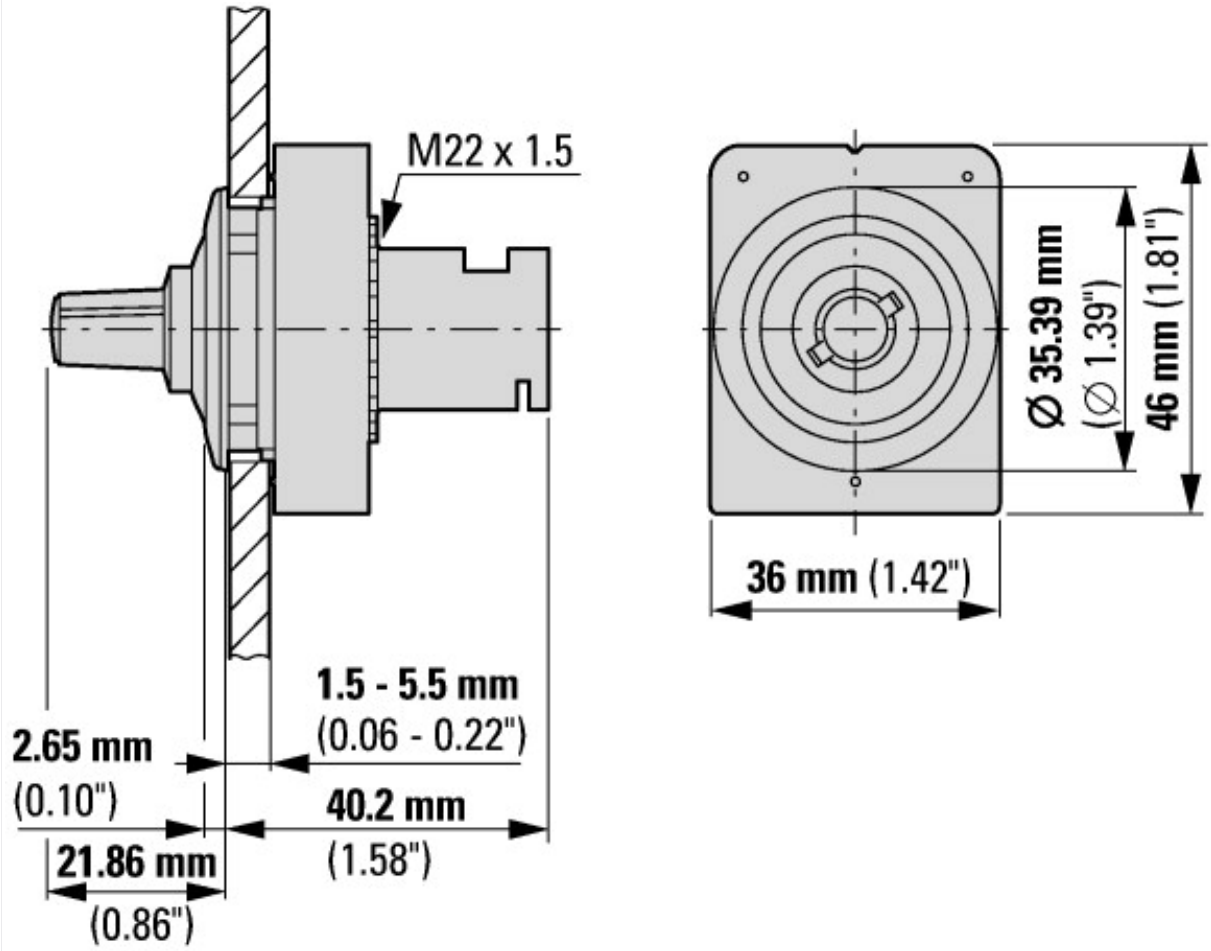
Low-voltage industrial components (EG000017) / Potentiometer for control circuit devices (EC001027)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Potentiometer for command devices (ecl@ss10.0.1-27-37-12-27 [AKF045014])			
Resistance		Ohm	0
Power consumption		W	0.5
Hole diameter		mm	30
Number of revolutions			1 - 1
Type of electric connection			Screw connection
Degree of protection (IP)			IP66
Degree of protection (NEMA)			Other

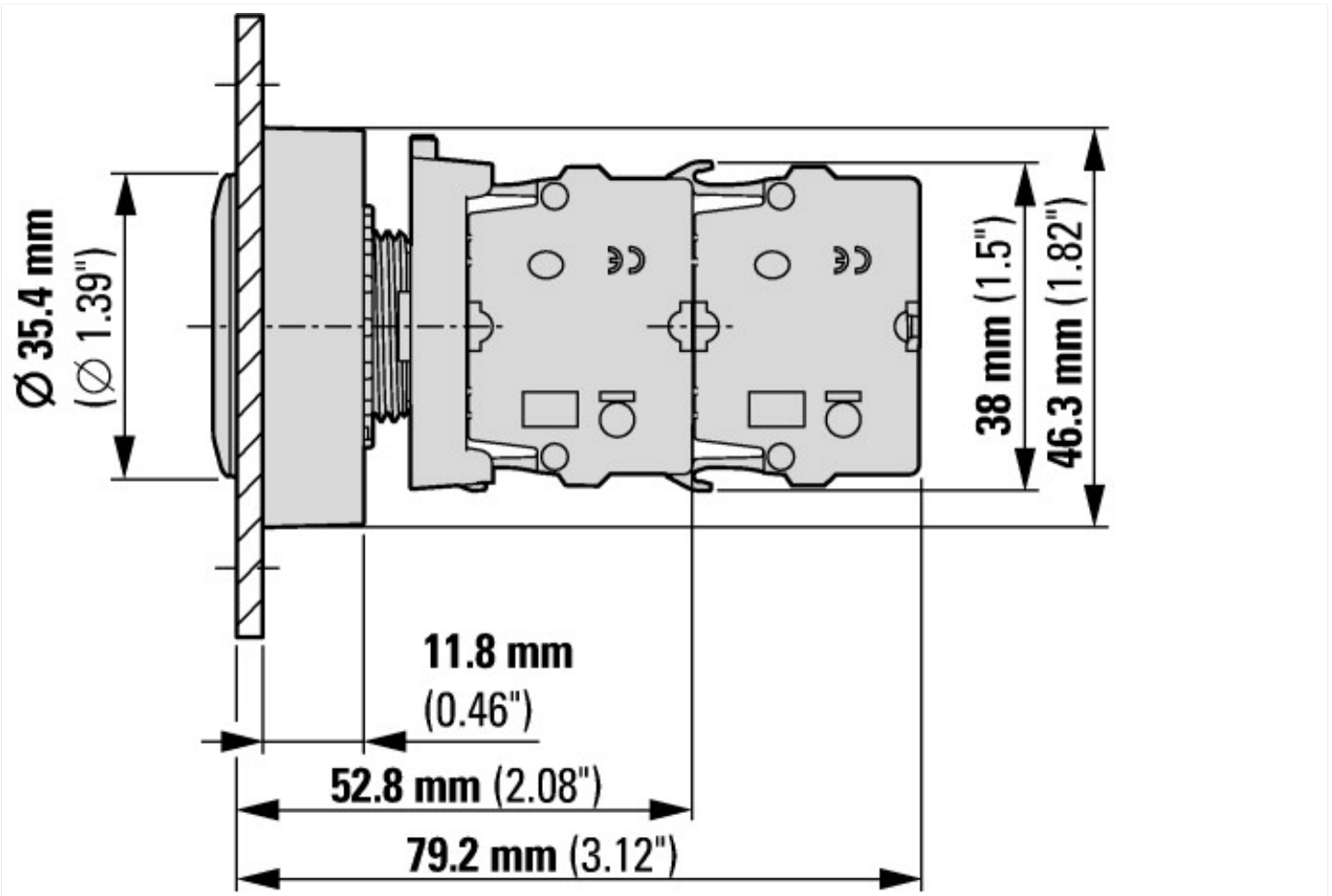
Approvals

Product Standards			IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.			E29184
UL Category Control No.			NKCR
CSA File No.			012528
CSA Class No.			3211-03

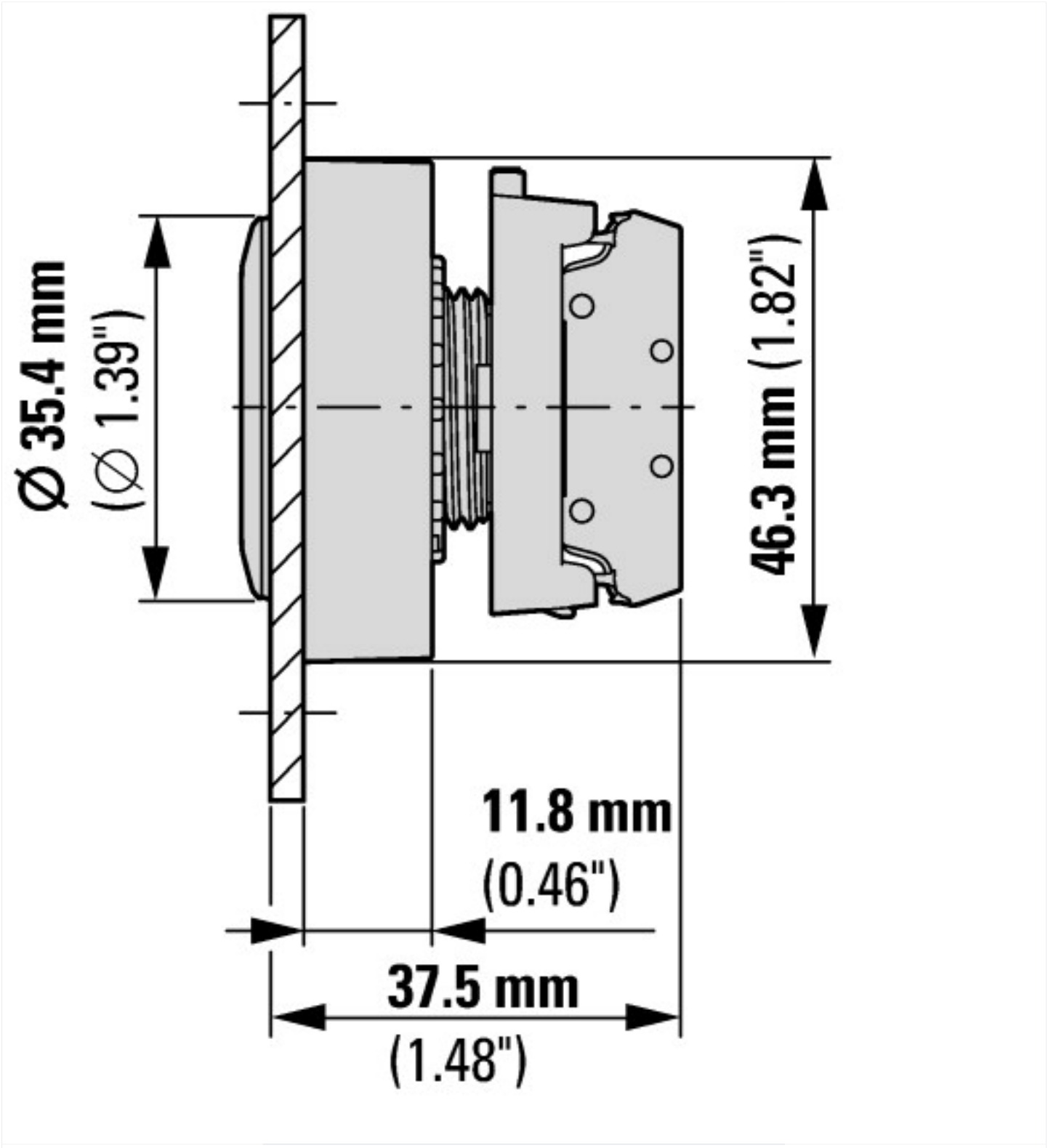
North America Certification			UL listed, CSA certified
Degree of Protection			UL/CSA Type 3R, 4X, 12, 13

Dimensions

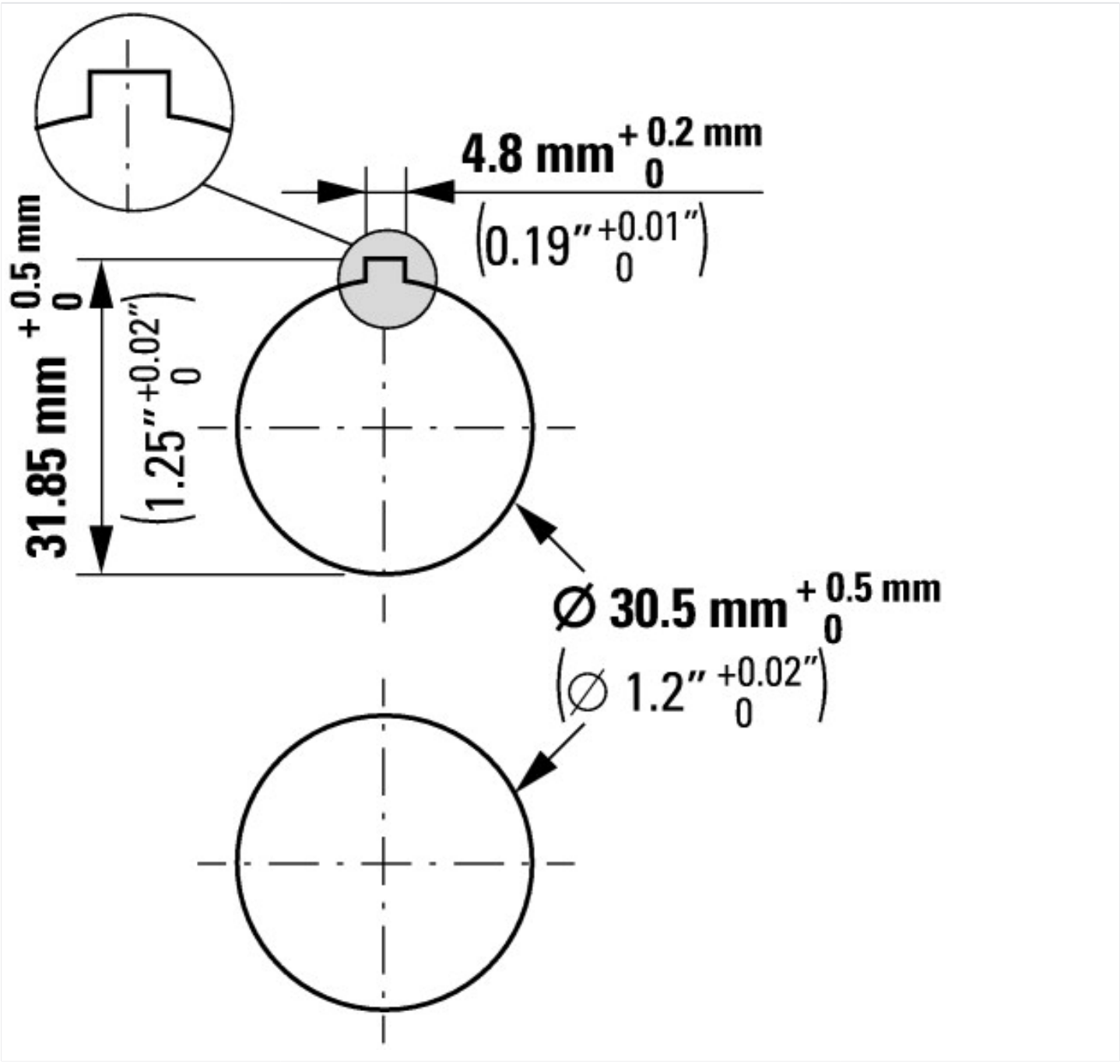




with 2 M22-K… standard contact elements



with M22-FK… flat rear contact elements



Additional product information (links)

IL047019ZU Flat Front	
IL047019ZU Flat Front	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL047019ZU2018_05.pdf