



Ui 600V ac
 Ui 300V dc
 UL 50041
 EN60947-5-1

Installation Instructions for the MICRO SWITCH™ Global Limit Switches (GLS-DIN Series)
Instrucciones de instalación para los MICRO SWITCH™ interruptores limite global (serie GLS-DIN)
Einbauanweisungen für den MICRO SWITCH™ Global Endschalter (Serie GLS-DIN)
Instructions d'installation du MICRO SWITCH™ fin de course mondiales (série GLS-DIN)
Istruzioni per l'installazione del MICRO SWITCH™ finecorsa globali (Serie GLS-DIN)
Instruções de Instalação para o MICRO SWITCH™ de limite global (Série GLS-DIN)

⚠ WARNING

IMPROPER INSTALLATION

- Consult with local safety agencies and their requirements when designing a machine-control link, interface, and all control elements that affect safety.
- Strictly adhere to all installation instructions.

Failure to comply with these instructions could result in death or serious injury.

⚠ ADVERTENCIA

INSTALACIÓN INCORRECTA

- Consulte las normas de seguridad y sus requisitos al realizar el diseño del enlace de control de una máquina, la interfaz, y los elementos de control que afecten a la seguridad.
- Siga estrictamente todas las instrucciones para la instalación.

El incumplimiento de estas recomendaciones puede ocasionar lesiones graves o peligro de muerte.

MOUNT, WIRE, AND SEAL THE SWITCH

⚠ WARNING

IMPROPER OPERATION

- Ensure switch actuator achieves sufficient travel for positive opening of normally closed (NC) contacts to occur.

Failure to comply with these instructions could result in death or serious injury.

MONTAJE, CABLEADO Y SELLADO DEL INTERRUPTOR

⚠ ADVERTENCIA

FUNCIONAMIENTO INCORRECTO

- Asegúrese que el actuador del interruptor tenga la suficiente carrera para que se produzca la apertura positiva de los contactos normalmente cerrados (NC)..

El incumplimiento de estas recomendaciones puede ocasionar lesiones graves o peligro de muerte.

1. Refer to:
 - Page 3 for adjustments.
 - Pages 8 to 17 for specific travel distances for each switch code, and specifications.
 - Page 4 proper application of limit switches, and switch mounting dimensions.
2. Perform adjustments (if desired):
 - Head orientation, page 4.
 - Actuation direction (Figure 2, page 4).
 - Side rotary switches with 90° positive drive levers (catalog listings ending in A1A, A1B, A5A, A5B) (Figure 3):
 - Ensure flats of switch shaft engage groove in actuator lever.
 - Tighten locking screw (A) until tab (B) no longer moves.
3. Mount switch using four M5 or #10 screws. Torque screws to 4,9 Nm to 5,9 Nm [43 in-lb to 52 in-lb].
4. Remove screws on cover plate.
5. Connect stranded wire (0,75 mm² to 2,5 mm², 18-14 AWG) or solid wire (0,75 mm² to 1,5 mm², 18-16 AWG) to connector terminals (use 90 °C wire when ambient temperature is over 75 °C). Torque switch terminal screws to 0,8 Nm to 1,0 Nm [7 in-lb to 9 in-lb].
6. Seal conduit opening according to instructions in PK 80112.
7. Reassemble cover plate, and torque cover screws to 0,5 Nm [4.4 in-lb].

1. Consulte:
 - la página 3 para los ajustes
 - las páginas 8 y 17 para las distancias de carrera específicas de cada código de interruptor y las especificaciones.
 - la página 4 para la correcta aplicación de los interruptores final de carrera y las dimensiones de montaje del interruptor.
2. Realice ajustes (si lo desea):
 - Orientación del cabezal (la página 4).
 - Dirección del accionamiento (véase la figura 2, la página 4).
 - Interruptores de rotación lateral con palancas de impulsión positiva de 90° (las referencias del catálogo que terminen en A1A, A1B, A5A, A5B) (véase la figura 3):
 - Asegúrese de que las caras del eje del interruptor enganchen la ranura de la palanca del actuador.
 - Ajuste el tornillo de apriete (A) hasta que la lengüeta (B) deje de moverse.
3. Para montar el interruptor, utilice cuatro tornillos M5 o del número 10. Ajuste los tornillos hasta 4,9 Nm a 5,9 Nm (43 a 52 pulg. lb).
4. Quite los tornillos de la tapa.
5. Conecte cable trenzado (0,75 mm² a 2,5 mm², 18-14 AWG) o cable sólido (0,75 mm² a 1,5 mm², 18-16 AWG) a los terminales del conector (utilice cable de 90 °C cuando la temperatura ambiente supere los 75 °C). Ajuste los tornillos de los terminales hasta 0,8-1,0 N m (7-9 pulg. lb).

- Selle el conducto de entrada según las instrucciones en PK 80112.
- Vuelva a montar la tapa, y con una llave de torsión, ajuste los tornillos a 0,5 Nm (4.4 in lbf).

⚠️ WARNUNG

UNSACHGEMÄSSER EINBAU

- Beraten Sie sich mit den zuständigen Sicherheitsbehörden beim Entwurf von Verbindungen zu Maschinensteuerungen, Schnittstellen und sämtlichen Steuerelementen, welche die Sicherheit betreffen.
- Halten Sie sich genau an die Einbau-Anweisungen.

Das Nichtbeachten dieser Anweisungen könnte zum Tod oder zu schweren Verletzungen führen.

SCHALTER MONTIEREN, ANSCHLIESSEN UND ABDICHTEN

⚠️ WARNUNG

UNSACHGEMÄSSER BETRIEB

- Sicherstellen, daß der Betätiger genügend Laufweg hat, um die Öffnerkontakte (NC) zwangszuöffnen.

Das Nichtbeachten dieser Anweisungen könnte zum Tod oder zu schweren Verletzungen führen.

- Weitere Informationen:
 - Einstellungen auf Seite 3.
 - Spezifische Laufwege für jeden Schaltercode und technische Daten auf Seite 8 und 17.
 - Ordnungsgemäße Anwendung von Positionsschaltern und Abmessungen für die Schaltermontage auf Seite 4.
- Einstellungen vornehmen (falls gewünscht):
 - Ausrichtung des Kopfes (auf Seite 4).
 - Betätigungsrichtung (Abbildung 2, auf Seite 4).
 - Schalter mit seitlichem Schwenkhebel mit 90°-Zwangsteuerhebeln (Bestellnummern enden mit A1A, A1B, A5A, A5B) (Abbildung 3):
 - Sicherstellen, daß die gegenüberliegenden Flächen des Schalters in die Rille im Betätigerhebel eingreifen.
 - Die Sicherungsschraube (A) anziehen, bis die Nase (B) nicht mehr zu bewegen ist.
- Den Schalter mit Hilfe von vier M5-Schrauben oder Schrauben Nr. 10 montieren. Schrauben mit 4,9 ...1,80 Nm anziehen.
- Die Schrauben auf der Deckplatte entfernen.
- Den Litzendraht (0,75 mm² ... 2,5 mm², 18 ... 14 AWG) oder Draht (0,75 mm² ... 1,5 mm², 18 ... 16 AWG) an die Klemmleisten anschließen (90 °C-Draht verwenden, wenn die Umgebungstemperatur über 75 °C liegt). Die Klemmleistschrauben des Schalters mit 0,8 ...1,0 Nm anziehen.
- Die Kabeleinführung entsprechend den Anweisungen in PK 80112 abdichten.
- Abdeckung wiederanbringen und Abdeckschrauben mit einem Drehmoment von 0.5Nm anziehen.

⚠️ AVERTISSEMENT

INSTALLATION INCORRECTE

- Faites appel à des emperatu locaux de sécurité et prenez en compte leurs exigences lorsque vous concevez une liaison de commande ou interface de machine, ou tout autre dispositif de commande mettant en jeu la sécurité.
- Respectez scrupuleusement l'ensemble des instructions d'installation.

L'inobservation de ces instructions peut entraîner la mort ou de graves blessures.

MONTEZ, CABLEZ ET ETANCHEIFIEZ L'INTERRUPTEUR

⚠️ AVERTISSEMENT

MAUVAIS FONCTIONNEMENT

- Veillez à ce que l'actionneur de l'interrupteur parcourt une course suffisante afin de permettre une ouverture positive des contacts normalement fermés (NF).

L'inobservation de ces instructions peut entraîner la mort ou de graves blessures.

- Consultez:
 - La page 3 pour les réglages.
 - Les pages 8 et 17 pour connaître les longueurs de courses pour chaque code d'interrupteur et les caractéristiques techniques.
 - La page 4 pour savoir comment réaliser une application correcte des interrupteurs de fin de course et connaître les cotes de montage de l'interrupteur.
- Effectuez les réglages (le cas échéant):
 - Orientation de la tête (la page 4).
 - Sens d'actionnement (figure 2, la page 4).
 - Interrupteurs à rotation latérale avec leviers à 90° à action positive (numéros de emperatu se terminant par A1A, A1B, A5A, A5B) (figure 3) :
 - Veillez à ce que les méplats de l'axe de l'interrupteur s'engagent dans l'encoche du levier de l'actionneur.
 - Serrez la vis de blocage (A) jusqu'à ce que la languette (B) ne bouge plus.
- Montez l'interrupteur à l'aide de vis M5 ou n°10. Serrez les vis avec un couple de 4,9 à 5,9 N.m (43 à 52 in.lb).
- Retirez les vis du couvercle.
- Connectez du fil souple (0,75 mm² à 2,5 mm², 18 à 14 AWG) ou rigide (0,75 mm² à 1,5 mm², 18 à 16 AWG) aux bornes du connecteur (utilisez du fil 90 °C lorsque la emperature ambiante est supérieure à 75 °C). Serrez les vis des bornes de l'interrupteur avec un couple de 0,8 à 1,0 N.m (7 à 9 in.lb).
- Réalisez l'étanchéité de l'ouverture du conduit conformément aux instructions données en PK 80112.
- Remonter le couvercle, et serrez les vis du couvercle avec un couple de 0,5 N.m (4.4 in.lb).

⚠ ATTENZIONE

INSTALLAZIONE SCORRETTA

- Consultare gli enti locali in materia di antinfortunistica e le rispettive normative nel momento in cui ci si avvia alla progettazione di un qualsiasi collegamento controllo macchina, o di un'interfaccia, o di tutti gli elementi di controllo che possano influire sulla sicurezza.
- Attenersi rigorosamente a tutte le istruzioni relative all'installazione.

L'inosservanza di tali istruzioni può essere causa di gravi lesioni, con conseguenze addirittura fatali.

MONTARE, CABLARE E SIGILLARE L'INTERRUTTORE

⚠ ATTENZIONE

FUNZIONAMENTO SCORRETTO

- Accertarsi che la corsa dell'attuatore dell'interruttore sia sufficiente a consentire l'apertura forzata dei contatti normalmente chiusi (NC).

L'inosservanza di tali istruzioni può essere causa di gravi lesioni, con conseguenze addirittura fatali.

1. Fare riferimento a:
 - Pagina 3, per le regolazioni.
 - Pagina 8 e pagina 17, per gli specifici valori relativi a ciascun codice di interruttore e per i dati tecnici.
 - Pagina 4, per il corretto impiego degli interruttori finecorsa e per le dimensioni di montaggio.
2. Eventualmente eseguire le regolazioni (in base alle esigenze):
 - Orientamento testa (Pagina 4).
 - Direzione di attuazione (Figura 2, pagina 4).
 - Interruttori a rotazione laterale con leve ad azionamento meccanico a 90° (voci di catalogo che finiscono con A1A, A1B, A5A, A5B) (Figura 3);
 - Accertarsi che le alette dell'alberino dell'interruttore siano inserite nell'apposita scanalatura della leva dell'attuatore.
 - Serrare la vite di fermo (A) finché il movimento della linguetta (B) non risulta impedito.
3. Montare l'interruttore mediante quattro viti M5 o #10. Serrare le viti ad una coppia pari a 4,9-5,9 N m [43-52 poll. lb.].
4. Rimuovere le viti dalla piastra di copertura.
5. Collegare cavi flessibili (0,75 mm² - 2,5 mm², 18-14 AWG) o cavi rigidi (0,75 mm²-1,5 mm², 18-16 AWG) ai morsetti dei connettori (se la temperatura ambiente supera i 75 °C, utilizzare cavi che hanno una temperatura di esercizio pari a 90 °C). Serrare le viti ad una coppia pari a 0,8-1,0 N m [7-9 poll. lb.].
6. Sigillare l'apertura del tubo isolante in base alle istruzioni della PK 80112.
7. Rimontare il coperchio, e stringere le viti fino al massimo di 0,5 Nm. [4.4 in-lb].

⚠ ADVERTÊNCIA

INSTALAÇÃO INCORRETA

- Consulte as agências de segurança local e seus requisitos ao projetar unidades de conexão ou interface para controle de máquinas, bem como todos os elementos de controle que possam afetar a segurança.
- Obedeça rigorosamente todas as instruções de segurança.

Desobediência a essas instruções pode resultar em morte ou ferimentos graves.

MONTAGEM, FIAÇÃO E VEDAÇÃO DO SWITCH

⚠ ADVERTÊNCIA

INSTALAÇÃO INCORRETA

- Certifique-se de que o atuador do switch atinja um percurso suficiente para que ocorra a abertura positiva de contatos normalmente fechados (NC, normally closed).

Desobediência a essas instruções pode resultar em morte ou ferimentos graves.

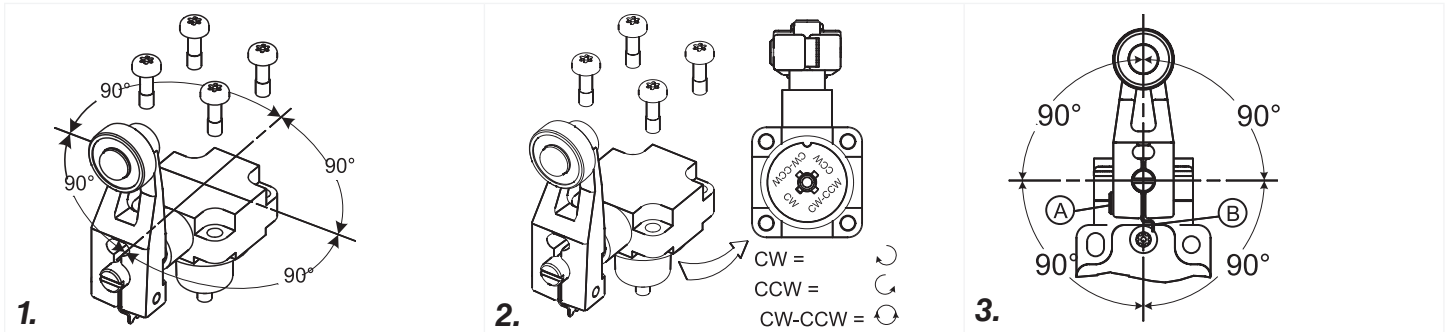
1. Consulte:
 - A página 3 para ajustes.
 - As páginas 8 e 17 para saber as distâncias de percurso específicas para cada código de switch e especificações.
 - A página 4 para ver a aplicação adequada de switches de fim de curso e dimensões de montagem dos switches.
2. Faça os ajustes necessários (se desejado):
 - Orientação da cabeça (A página 4).
 - Direção de atuação (Figura 2, a página 4).
 - Switches com acionamento lateral com alavancas de direção de 90° positivos (listas do catálogo com terminação A1A, A1B, A5A, A5B) (Figura 3):
 - Certifique-se de que os planos do eixo do switch encaixem-se nos sulcos da alavanca do atuador.
 - Aperte o parafuso de trava (A) até que a lingueta (B) não se desloque mais.
3. Monte o switch usando quatro parafusos M5 ou nº10. Aperte os parafusos com um torque de 4,9-5,9 N-m (109,22-132,08cm lb).
4. Remova os parafusos da tampa de cobertura.
5. Conecte cabos trançados (0,75 mm² - 2,5 mm², 18-14 AWG) ou sólidos (0,75 mm² to 1,5 mm², 18-16 AWG) aos terminais do conector (utilize cabos para 90 °C quando a temperatura ambiente passar dos 75 °C). Aperte os parafusos do terminal do switch com um torque de 0,8-1,0 N-m (17,78-22,86cm-lb).
6. Sele a abertura do condúite de acordo com as instruções descritas em PK 80112.
7. Remontar prato de cobertura, e parafusos de cobertura de torque para 0,5 Nm (4.4 pol/lb).

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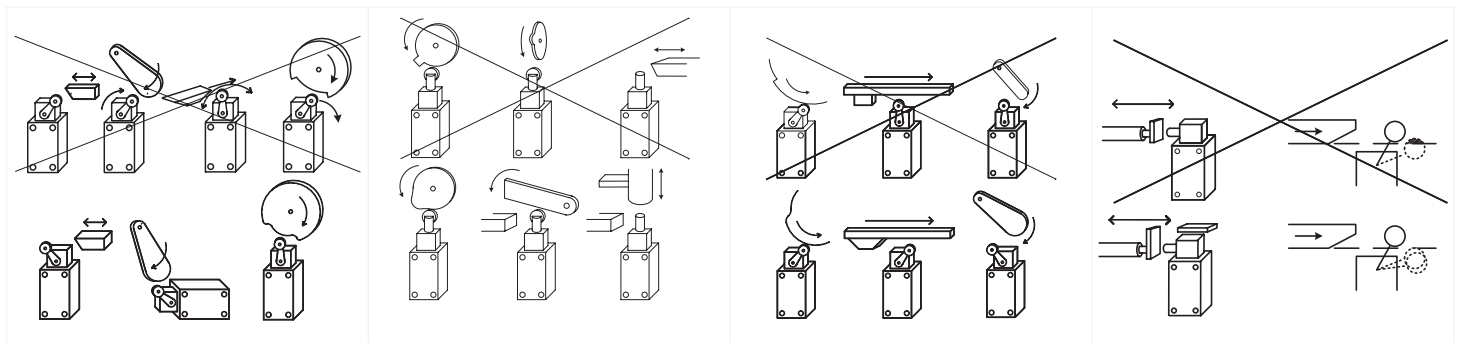
**FIELD ADJUSTABLE HEAD
FIELD VERSTELLBAREM KOPF
CAMPO TESTA REGOLABILE**

**CAMPO DE CABEÇA AJUSTABLE
TÊTE DE CHAMP RÉGLABLE
CABEÇA CAMPO AJUSTÁVE**



**OPERATION REQUIREMENTS
ANFORDERUNGEN AN DEN BETRIEB
REQUISITI PER L'ESERCIZIO**

**REQUISITOS DE FUNCIONAMIENTO
EXIGENCES DE FONCTIONNEMENT
REQUISITOS DE OPERAÇÃO**



**TERMS
BEDINGUNGEN
TARIFFE**

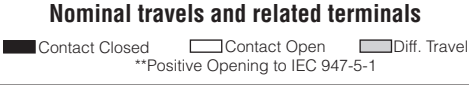
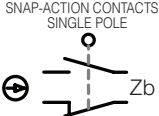

**CONDICIONES
TERMES
CONDIÇÕES**

Contact Closed	Contacto cerrado	Kontakt geschlossen	Contact fermé	Contatto chiuso	Contacto Fechado
Contact Open	Contacto abierto	Kontakt offen	Contact ouvert	Contatto aperto	Contacto Aberto
Differential Travel	Carrera diferencial	Differenzwinkel	Course différentielle	Corsa differenziale	Percurso Diferencial
Free Position	Posición libre	Freistellung	Position libre	Posizione libera	Posição Livre
Operating Position 1	Posición de funcionamiento 1	Schaltpunkt 1	Position de commutation 1	Posizione di funzionamento 1	Posição de Operação 1
Positive Opening 1 to IEC 947-5-1	Apertura positiva 1 según IEC 947-5-1	Zwangsöffnung 1 gemäß IEC 947-5-1	Ouverture positive 1 selon CEI 947-5-1	Apertura forzata 1 Conforme alla norma IEC 947-5-1	Abertura Positiva 1 para IEC 947-5-1
Differential Travel 1	Carrera diferencial 1	Differenzweg 1	Course différentielle 1	Corsa differenziale 1	Percurso Diferencial 1
Over Travel	Sobrecarrera	Nachlaufweg	Surcourse	Oltre corsa	Sobrepercurso
Maximum Operating Force	Fuerza de funcionamiento máxima	Maximale Betätigungskraft	Force de commutation maximum	Forza massima di intervento	Força Máxima de Operação
Maximum Disconnect Force	Fuerza de desconexión máxima	Maximale Öffnungskraft	Force de déconnexion maximum	Forza massima di scollegamento	Força Máxima de Desconexão

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Figure 1. Reading Operating Specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals 	Operating force max.	Disconnect force, max.	Operating de-grees, max.	Operating degrees, min.	Max. operate frequency ops/min	
GL**01A GL**07A			9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250	
↑ Catalog Listing Code	↑ Contact Block Diagram Shows the circuit configuration of the internal contact block.	↑ Operating Bar Charts Show the state of the contacts relative to the position of the actuator.	↑ Operating Specifications					↑

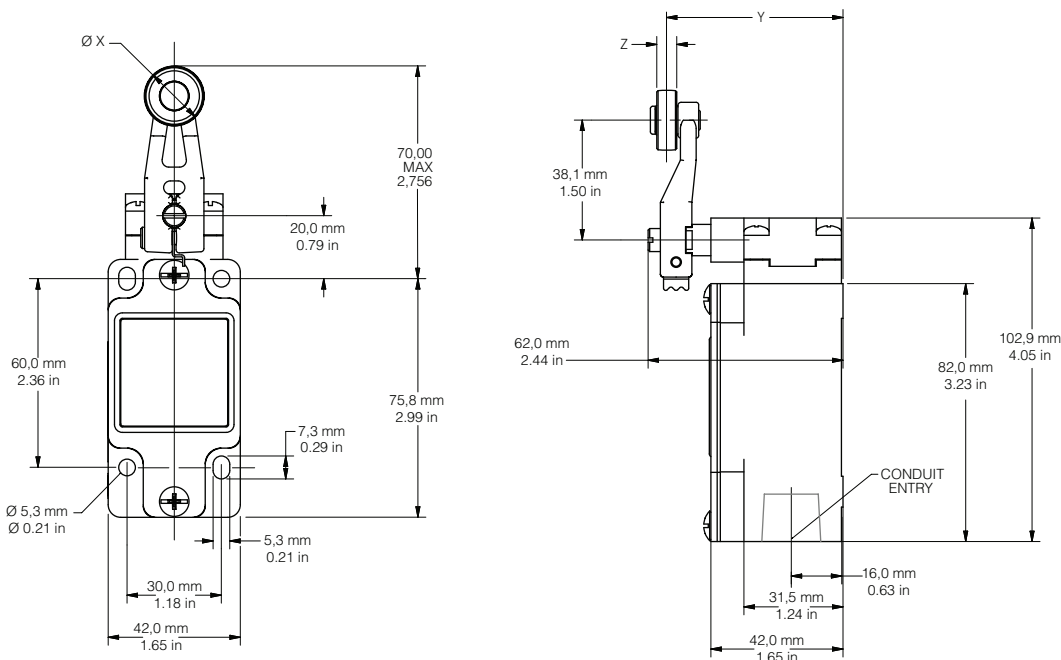
PRODUCT NOMENCLATURE

GL Switch Type	A Body Style Code	A Conduit Entry Threading Code	01 Basic Switch		A1A Head/Actuator			
GL Series Global Limit Switch	A EN50041, non-plug-in	A 1/2-14 NPT	01 SPDT, snap action	26 DPDT, snap action, center neutral	A1 Side rotary, fixed, no roller	A3A Side rotary, yoke, 19 x 6 nylon roller	E7A Wobble, plastic stick	1 CW rotation only
	B EN50041, plug-in	B PG 13.5	03 SPDT, BBM slow acting	27 DPDT, snap action, center neutral, Body E	A2 Side rotary, adjustable, no roller	A3B Side rotary, yoke, 19 x 6 steel roller	E7B Wobble, coil	2 CCW rotation only
	F EN50041, non-plug-in, LED light box	C 20 mm	04 SPDT, MBB slow acting	28 DPDT, snap action, gold, sequential	A1A Side rotary, fixed, 19 x 6 nylon roller	A4J Side rotary, adjust., 200 mm aluminum rod	E7D Wobble, cat whisker	3 Lever to right
	G EN50041, plug-in, LED light box	D PF 1/2	05 SPDT, 2NO slow acting	29 DPDT, snap action, center neutral, gold	A1B Side rotary, fixed, 19 x 6 steel roller	A4K Side rotary, adjust., 140 mm aluminum rod	F Adj. top roller lever, Ø27,3 x 5 POM roller	4 Lever to left
	H EN50041, plug-in, LED light box		06 SPDT, 2NC slow acting	30 DPDT, snap act, center neutral, gold, Body E	A1Y Side rotary, fixed, 50 x 10 rubber roller	A4N Side rotary, adjust., 318 mm aluminum rod	K8A Cat whisker, 140 mm	5 Lever to mounting surf.
			07 SPDT, snap action, gold	31 DPDT, snap action, gold, sequen., Body E	A2Y Side rotary, adj., 50 x 10 rubber roller	A5A Side rotary, offset, 19 x 6 nylon roller	K8B Cat whisker, 190 mm	6 Roller perpendicular to mtg. surf.
			20 DPDT, snap action	32 DPDT, snap action, gold cont. Body E	A2A Side rotary, adjust., 19 x 6 nylon roller	A5B Side rotary, offset, 19 x 6 steel roller	K8C Wobble, cat whisker	
			21 DPDT, snap action, sequential	33 SPDT, BBM, slow acting, gold contacts	A2B Side rotary, adjust., 19 x 6 steel roller	A9A Side rotary, conveyor lever		
			22 DPDT, snap action, gold contacts	34 SPDT, MBB slow acting, gold contacts	A2D Side rotary, adjust., 38 x 6 nylon roller	B Top pin plunger		
			24 DPDT, snap action, Body E	35 SPDT, 2NO slow acting, gold contacts	A2W Side rotary, adjust., 38 x 12 rubber roller	C Top roller plunger		
			25 DPDT, snap action, gold cont. Body E	36 SPDT, 2NC slow acting, gold contacts		D Top roller lever		

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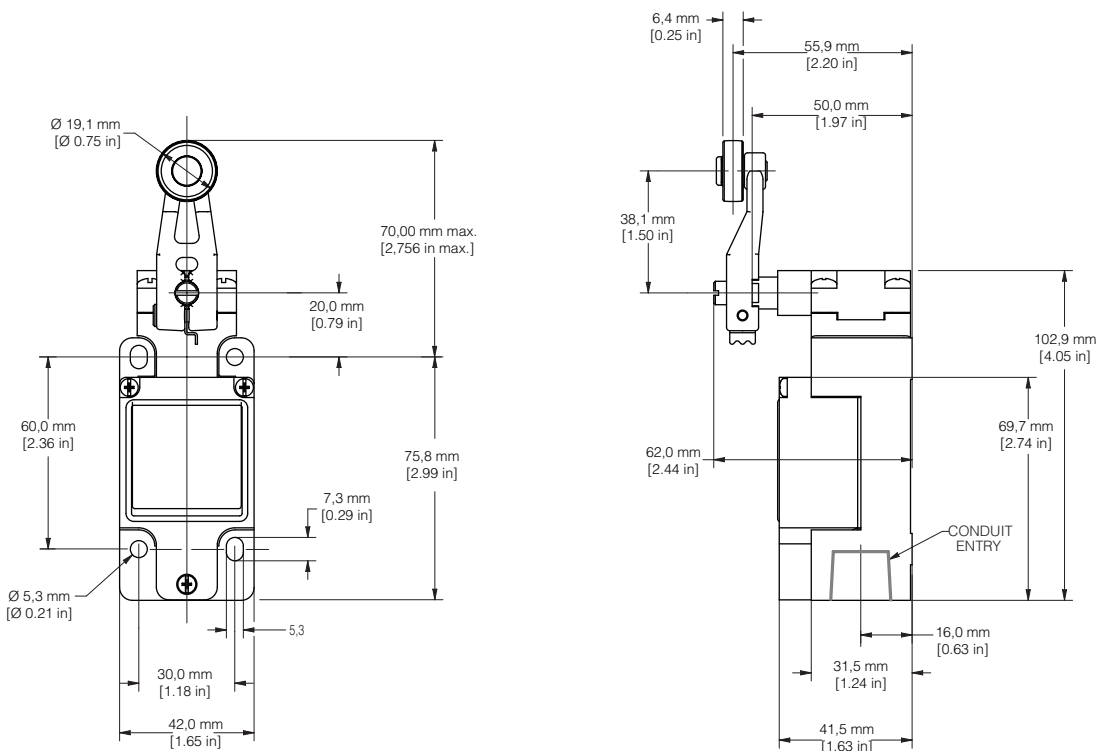
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Figure 2. Fixed Lever, Side Rotary Switch - Non-plug-in Body Style, GLZ51 lever, and GLA body



LEVER (catalog listing)	ROLLER MATERIAL	X DIM	Y DIM	Z DIM
GLZ51A	NYLON	19.1 .75	55.9 2.20	6.4 .25
GLZ51B	STEEL	19.1 .75	55.9 2.20	6.4 .25
GLZ51C	NYLON	24.5 1.00	59.1 2.33	12.7 .50
GLZ51Y	RUBBER	50.0 1.97	66.1 2.60	10.0 .39
GLZ51T	STAINLESS STEEL	19.1 .75	56.8 2.24	8.8 .345

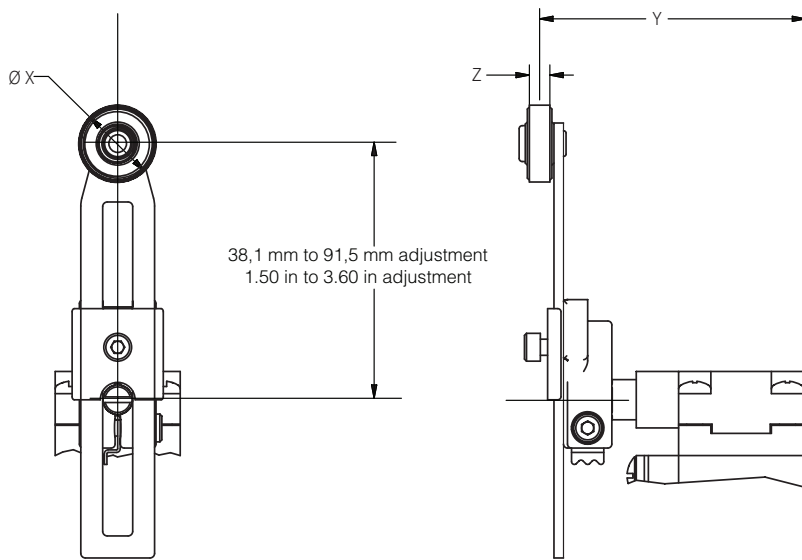
Figure 3. Fixed Lever, Side Rotary Switch - Plug-in Body Style, GLZ51 lever, and GLB body



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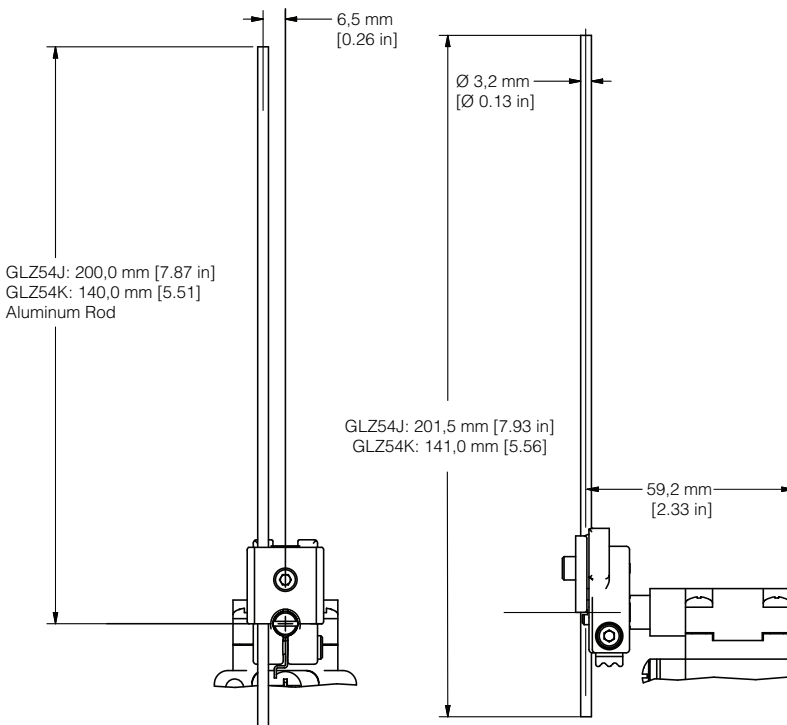
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Figure 4. Adjustable Lever Dimensions, GLZ52



LEVER	ROLLER MATL	X DIM	Y DIM	Z DIM
GLZ52A	NYLON	19,1 .75	65,9 2.59	6,4 .25
GLZ52B	STEEL	19,1 .75	65,9 2.59	6,4 .25
GLZ52D	NYLON	38,1 1.5	65,9 2.59	6,4 .25
GLZ52E	NYLON	19,1 .75	79,37 3.125	33,07 1.300
GLZ52W	RUBBER	40,0 1.6	71,5 2.81	12,7 .5
GLZ52Y	RUBBER	50,0 1.97	68,8 2.71	10,0 .39

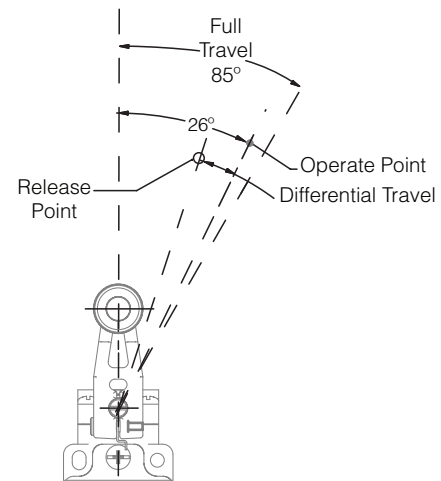
Figure 5. Aluminum Rod Lever Dimensions, GLZ54



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Figure 6. Head Code: A
Side Rotary Angular Operating Characteristics



Notes:

- Free position, operate point, over travel and pre-travel all to EN 50041
- Operating characteristics apply to counter clockwise (CCW) and clock wise (CW) actuation
- Refer to page 5 for instructions on how to read operating characteristics and specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals			Operating torque max.	Disconnect torque, max.	Operating degrees, max.	Operating degrees, min.	Max. operate frequency ops/min
		■ Contact Closed	□ Contact Open	▨ Diff. Travel					
GL**01A GL**07A	SNAP-ACTION CONTACTS SINGLE POLE 	21-22 13-14	26° 55°*** 85° 12° Differential travel	> <	0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE 	21-22 13-14	26° ** 38° 85°		0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK 	21-22 13-14	38° ** 26° 85°		0.330 Nm [2.9 in-lb]	0.400 Nm [3.5 in-lb]	1290°	13°	250
GL**05A GL**35A	SLOW ACTING 	13-14 23-24	38° ** 85°		0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**06A GL**36A	SLOW ACTING 	11-12 21-22	26° ** 85°		0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**20A GL**22A GL**24A GL**32A	SNAP ACTION CONTACTS DOUBLE POLE 	11-12, 21-22 13-14, 23-24	26° 55°*** 85° 12° Differential travel	> <	0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**21A GL**25A GL**28A GL**31A	STEP 1 STEP 2 	11-12 13-14 21-22 23-24	27° 42° 8° Differential travel 8° Differential travel	> < < <	0.330 Nm [2.9 in-lb]	n/a	1290°	13°	250

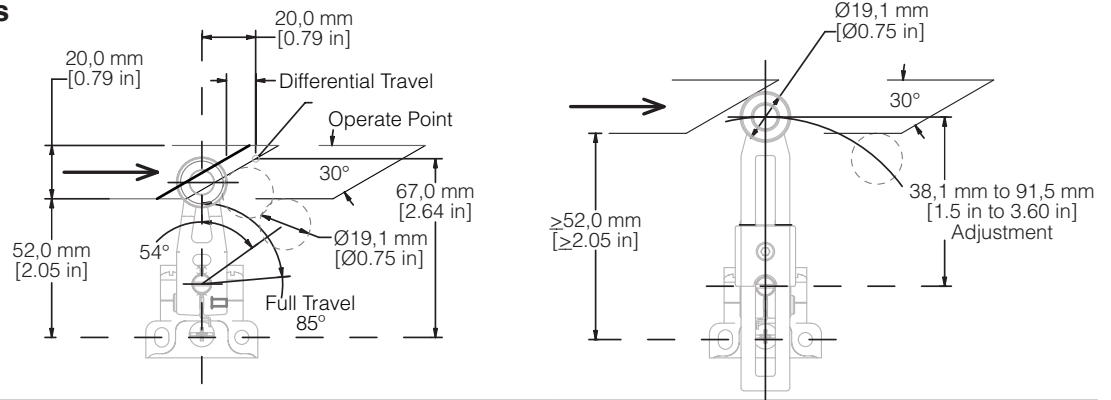
Installation Instructions for MICRO SWITCH™ GLS Limit Switches

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**Figure 7. Head Code: A • Side Rotary Cam Actuation Per EN50041
Operating Characteristics**

Notes:

- Cam travel for adjustable lever applies when lever is adjusted to 38,1 mm [1.5 in]
- Refer to page 5 for instructions on how to read operating characteristics and specifications

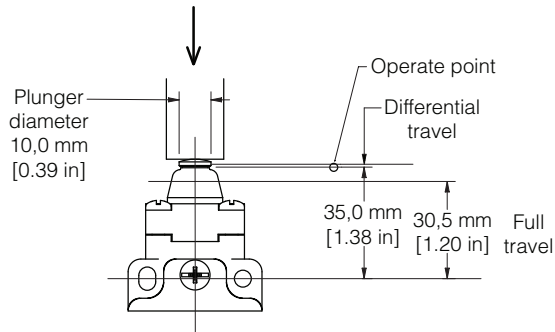


Catalog listing	Contact block diagram	Nominal travels and related terminals			Operating force max.	Disconnect force, max.	Operating degrees, max.	Operating degrees, min.	Max. operate frequency ops/min
		■ Contact Closed	□ Contact Open	▨ Diff. Travel					
GL**01A GL**07A	SNAP-ACTION CONTACTS SINGLE POLE 	21-22 13-14	20° 56°**	12° Differential travel	9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE 	21-22 13-14	20° **	32°	9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK 	21-22 13-14	0° 20°	32°	9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**05A GL**35A	SLOW ACTING 	13-14 23-24	32°	85°	9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**06A GL**36A	SLOW ACTING 	11-12 21-22	0° 20° **		9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**20A GL**22A GL**24A GL**32A	SNAP ACTION CONTACTS DOUBLE POLE 	11-12, 21-22 13-14, 23-24	20° 56°**	12° Differential travel	9,7 N [2.2 lb]	11,8 N [2.7 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**21A GL**25A GL**28A GL**31A	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 	11-12 13-14 21-22 23-24	0° 20° 38.5°	8.5° Differential travel 7° Differential travel	9,7 N [2.2 lb]	n/a	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**26J GL**27J GL**29J GL**30J	CCW CW SNAP ACTION CONTACTS DOUBLE POLE CENTER NEUTRAL 	11-12 13-14 21-22 23-24	0° 16°	8° Differential travel 8° Differential travel	9,7 N [2.2 lb]	n/a	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250

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Figure 8. Head Code: B
Pin Plunger Operating Characteristics



Notes:

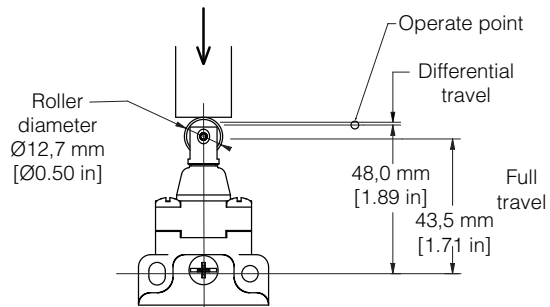
- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals		Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
		 Contact Closed Contact Open Diff. Travel **Positive Opening to IEC 947-5-1						
GL**01B GL**07B	SNAP-ACTION CONTACTS SINGLE POLE 	 0.9 Differential travel		16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**03B GL**33B	SLOW ACTING BREAK BEFORE MAKE 			16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**04B GL**34B	SLOW ACTING MAKE BEFORE BREAK 			16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**05B GL**35B	SLOW ACTING 			16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**06B GL**36B	SLOW ACTING 			16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**20B GL**22B GL**24B GL**32B	SNAP ACTION CONTACTS DOUBLE POLE 	 0.9 Differential travel		16 N [3.6 lb]	37 N [8.2 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**21B GL**25B GL**28B GL**31B	STEP 1 STEP 2 	 0.8 Differential travel		16 N [3.6 lb]	n/a	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250

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Figure 9. Head Code: C
Top Roller Plunger Pin Actuation Operating Characteristics



Notes:

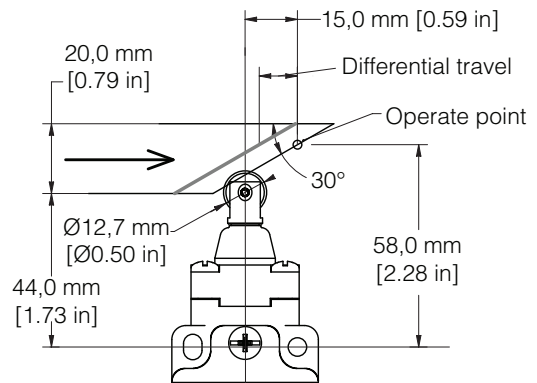
- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals					Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
		 **Positive Opening to IEC 947-5-1									
GL**01C GL**07C	SNAP-ACTION CONTACTS SINGLE POLE 						16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE 						16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**04C GL**34C	SLOW ACTING MAKE BEFORE BREAK 						16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**05C GL**35C	SLOW ACTING 						16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**06C GL**36C	SLOW ACTING 						16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**20C GL**22C GL**24C GL**32C	SNAP ACTION CONTACTS DOUBLE POLE 						16 N [3.6 lb]	37 N [8.2 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**21C GL**25C GL**28C GL**31C	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 						16 N [3.6 lb]	n/a	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250

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Figure 10. Head Code: C
Roller Plunger Cam Actuation
Per EN50041 Operating Characteristics



Notes:

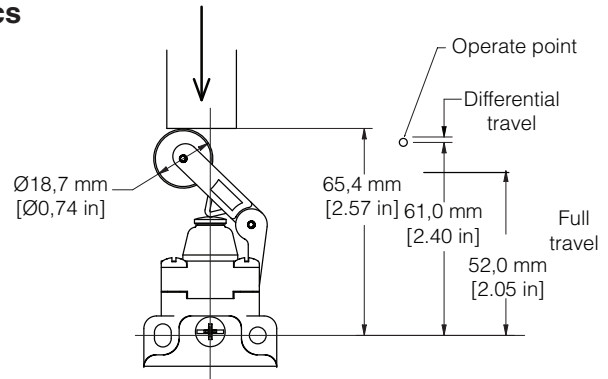
- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals			Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
		 Contact Closed Contact Open Diff. Travel **Positive Opening to IEC 947-5-1							
GL**01C GL**07C	SNAP-ACTION CONTACTS SINGLE POLE 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250		
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250		
GL**04C GL**34C	SLOW ACTING MAKE BEFORE BREAK 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250		
GL**05C GL**35C	SLOW ACTING 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250		
GL**06C GL**36C	SLOW ACTING 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250		
GL**20C GL**22C GL**24C GL**32C	SNAP ACTION CONTACTS DOUBLE POLE 		9,3 N [2.1 lb]	21,4 N [4.8 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250		
GL**21C GL**25C GL**28C GL**31C	SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL STEP 1 STEP 2 		9,3 N [2.1 lb]	n/a	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250		

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Figure 11. Head Code: D
Top Roller Lever Pin Actuation Operating Characteristics



Notes:

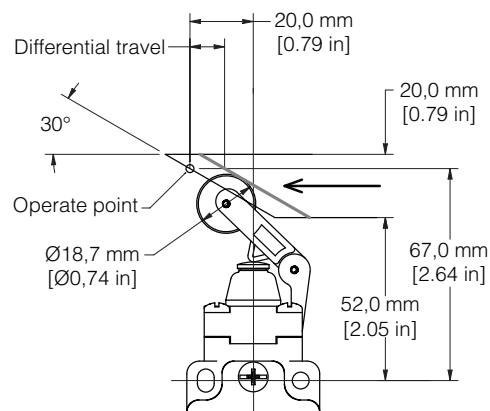
- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals ■ Contact Closed □ Contact Open ▨ Diff. Travel **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
GL**01D GL**07D	SNAP-ACTION CONTACTS SINGLE POLE 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**03D GL**33D	SLOW ACTING BREAK BEFORE MAKE 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**04D GL**34D	SLOW ACTING MAKE BEFORE BREAK 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**05D GL**35D	SLOW ACTING 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**06D GL**36D	SLOW ACTING 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**20D GL**22D GL**24D GL**32D	SNAP ACTION CONTACTS DOUBLE POLE 		9,5 N [2.1 lb]	16,4 N [3.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**21D GL**25D GL**28D GL**31D	STEP 1 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL STEP 2 		9,5 N [2.1 lb]	n/a	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250

Installation Instructions for MICRO SWITCH™ GLS Limit Switches

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**Figure 12. Head Code: D
Top Roller Lever Cam Actuation
per EN50041 Operating Characteristics**



Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals		Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
		 Contact Closed Contact Open Diff. Travel **Positive Opening to IEC 947-5-1						
GL**01D GL**07D	SNAP-ACTION CONTACTS SINGLE POLE 	 0 20 29.1** 21-22 13-14 4.1 Differential travel	> <	5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2.9 mm/S [0.11 in/S]	250
GL**03D GL**33D	SLOW ACTING BREAK BEFORE MAKE 	 0 20** 21-22 13-14 24.1	> <	5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2.9 mm/S [0.11 in/S]	250
GL**04D GL**34D	SLOW ACTING MAKE BEFORE BREAK 	 0 24.1** 21-22 13-14 20	> <	5,5 N [1.2 lb]	9,6 N [2.2 lb]	0,29 M/S [11.4 in/S]	2.9 mm/S [0.11 in/S]	250
GL**05D GL**35D	SLOW ACTING 	 0 24.1 13-14 23-24	> <	5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2.9 mm/S [0.11 in/S]	250
GL**06D GL**36D	SLOW ACTING 	 0 20** 11-12 21-22	> <	5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2.9 mm/S [0.11 in/S]	250
GL**20D GL**22D GL**24D GL**32D	SNAP ACTION CONTACTS DOUBLE POLE 	 0 20 29.1** 11-12, 21-22 13-14, 23-24 4.1 Differential travel	> <	5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2.9 mm/S [0.11 in/S]	250
GL**21D GL**25D GL**28D GL**31D	STEP 1 STEP 2 	 0 20 25.5 11-12 13-14 21-22 23-24 3.7 Differential travel 3.7 Differential travel	> <	5,5 N [1.2 lb]	n/a	0,29 M/S [11.4 in/S]	2.9 mm/S [0.11 in/S]	250

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Head Code: E • WOBBLE AND CAT WHISKER ACTUATOR DIMENSIONS

Figure 13. Coil Actuator

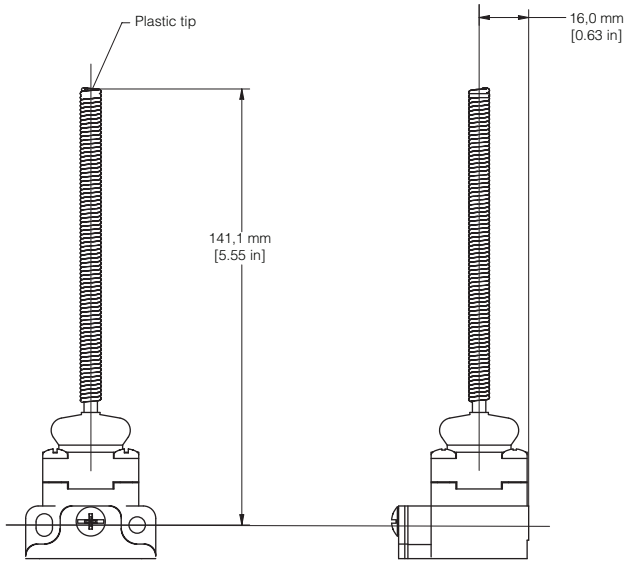


Figure 14. Plastic Rod and Flexible Cable

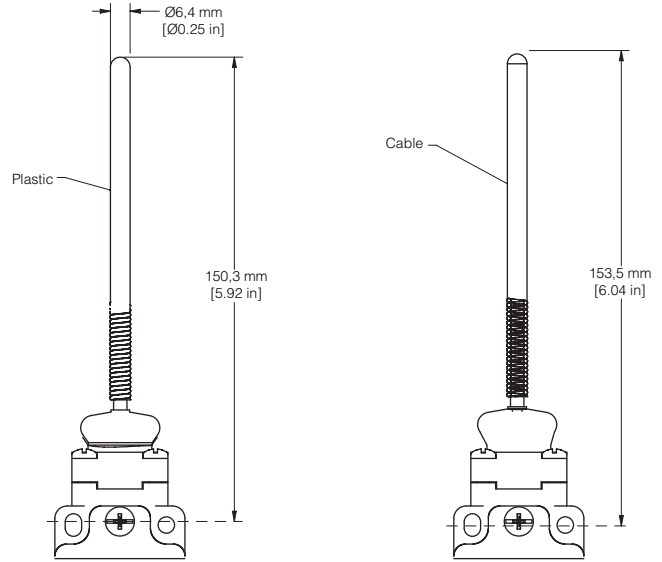
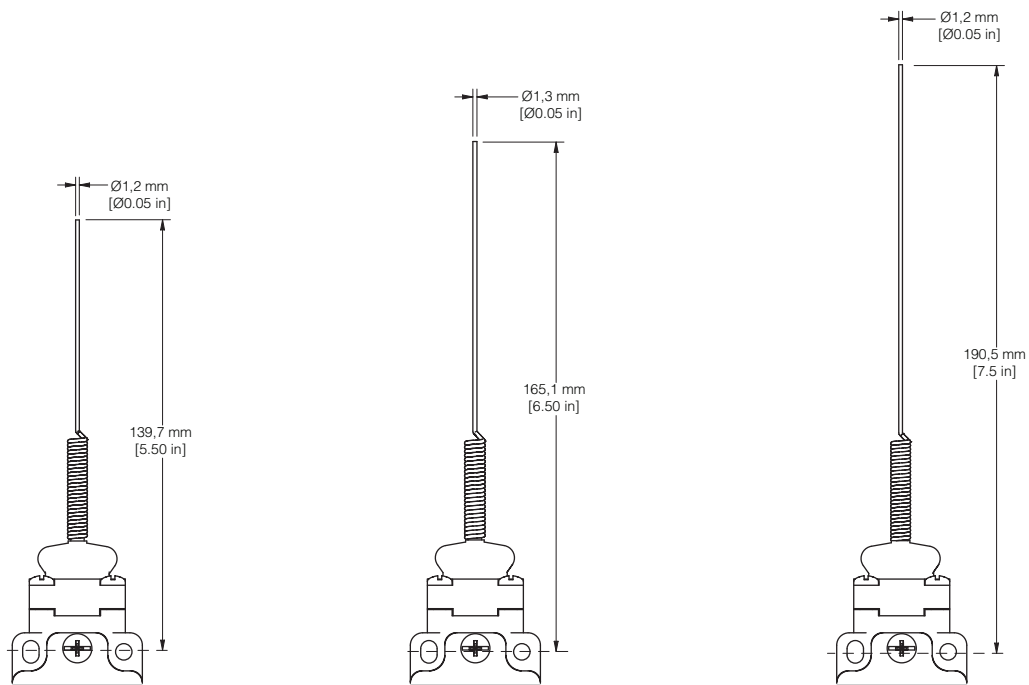


Figure 15. Cat Whisker Wobbles

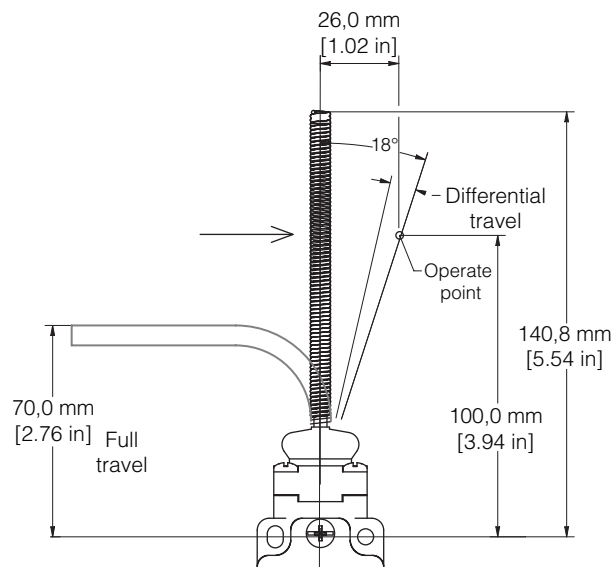
5.5 inches (stainless steel) 6.5 inches (stainless steel) 7.5 inches (stainless steel)



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Figure 16. Head Code: E
Wobble Stick Angular Actuation Operating Characteristics



Notes:

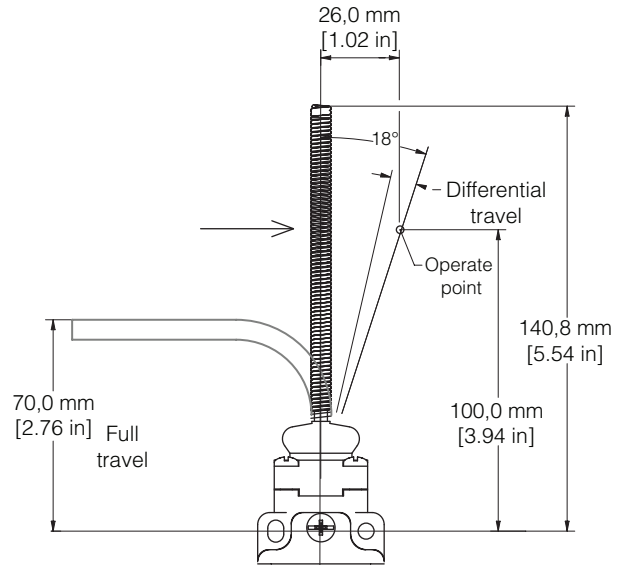
- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals <small>■ Contact Closed □ Contact Open ▨ Diff. Travel</small> <small>**Positive Opening to IEC 947-5-1</small>	Operating force max.	Disconnect force, max.	Operating de-greases, max.	Operating velocity, min.	Max. operate rate cycles/min
GL**01K GL**07K	SNAP-ACTION CONTACTS SINGLE POLE 	21-22 18° 13-14 8° Differential travel	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**03K GL**33K	SLOW ACTING BREAK BEFORE MAKE 	21-22 18° 13-14 25°	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**04K GL**34K	SLOW ACTING MAKE BEFORE BREAK 	21-22 25° 13-14 18°	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**05K GL**35K	SLOW ACTING 	13-14 25° 23-24	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**06K GL**36K	SLOW ACTING 	11-12 18° 21-22	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**20K GL**22K GL**24K GL**32K	SNAP ACTION CONTACTS DOUBLE POLE 	11-12, 21-22 18° 13-14, 23-24 8° Differential travel	0,1 N [0.9 lb]	n/a	360°	8°	100

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Figure 17. Head Code: K
Wobble Stick Angular Actuation Operating Characteristics



Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

Catalog listing	Contact block diagram	Nominal travels and related terminals ■ Contact Closed □ Contact Open ▨ Diff. Travel **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate rate cycles/min
GL**01K GL**07K	SNAP-ACTION CONTACTS SINGLE POLE 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**03K GL**33K	SLOW ACTING BREAK BEFORE MAKE 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**04K GL**34K	SLOW ACTING MAKE BEFORE BREAK 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**05K GL**35K	SLOW ACTING 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**06K GL**36K	SLOW ACTING 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**20K GL**22K GL**24K GL**32K	SNAP ACTION CONTACTS DOUBLE POLE 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100

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Installation Instructions for MICRO SWITCH™ GLS Limit Switches

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