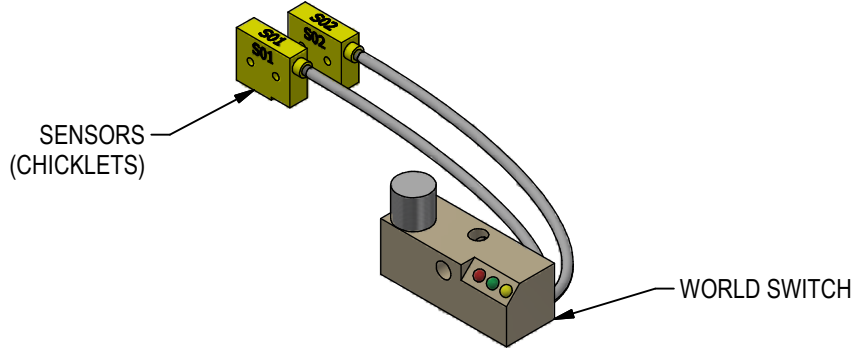


## WORLD SWITCHES

WELD FIELD IMMUNE, AC or DC. SENSORS SET TO EXTEND OR RETRACT POSITION.  
CHECK PRODUCT CATALOGS FOR AVAILABILITY



Order Number SO1 EXTEND/ SO1 RETRACT	Switch Reorder Part Number	Part Number	Manufacturer	Description All switches Quick Disconnect
ZE / ZR	SWITCH SWZ	WWS001A	WELKER	4-Wire, 4-Pin, DC M12 X 1 (PNP)
<b>Standard Switch Option - All other options may affect price and delivery</b>				
<b>Non-stocked switches (effective 1-2-2023):</b>				
AE / AR	SWITCH SWA	Ni2-Q6.5-AP6-0.1-FS 4.4X3/S304	Turck	4-Wire, 4-Pin, DC M12 X 1 (PNP)
BE / BR	SWITCH SWB	Ni2-Q6.5-ADZ32-0.1-FSB 5.4X4/S304	Turck	4-Wire, 5-Pin, AC/DC 1/2-20 (N.O.)
CE / CR	SWITCH SWC	Ni2-Q6.5-AN6-0.1-FS 4.4X3/S304	Turck	4-Wire, 4-Pin, DC M12 X 1 (NPN)
DE / DR	SWITCH SWD	NBN2-F581-100S6-E8-V 1	Pepperl & Fuchs	4-Wire, 4-Pin, DC M12 X 1 (PNP)
EE / ER	SWITCH SWE	BES-Z02KR2-PSC20F-P100-S04-V	Balluff	3-Wire, 4-Pin, DC M12 X 1 (PNP)
HE / HR	SWITCH SWH	Ni2-Q6.5-0.1-BDS-2AP6X3-H1 141/S34	Turck	4-Wire, 4-Pin, DC M12 X 1 (PNP)
JE / JR	SWITCH SWJ	IN5374	Efactor	3-Wire, 4-Pin, DC M12 X 1 (PNP)
SE / SR	SWITCH SWS	Ni2-Q6.5-AP6-0.16-FS 4.4X3/S304	Turck	4-Wire, 4-Pin, DC M12 X 1 (PNP)
TE / TR	SWITCH SWT	Ni2-Q6.5-ADZ32-0.16-FSB 5.4X4/S304	Turck	4-Wire, 5-Pin, AC/DC 1/2-20 (N.O.)
UE / UR	SWITCH SWU	Ni2-Q6.5-AN6-0.16-FS 4.4X3/S304	Turck	3-Wire, 4-Pin, DC M12 X 1 (NPN)
VE / VR	SWITCH SWV	NBN2-F581-160S6-E8-V 1	Pepperl & Fuchs	4-Wire, 4-Pin, DC M12 X 1 (PNP)
WE / WR	SWITCH SWW	BES-Z02KR2-PSC20F-P165-S04-V	Balluff	3-Wire, 4-Pin, DC M12 X 1 (PNP)
YE / YR	SWITCH SWY	IN5375	Efactor	3-Wire, 4-Pin, DC M12 X 1 (PNP)

RELEASED 10/28/22

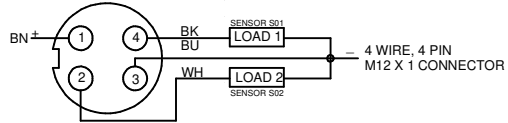
# WORLD SWITCH INFORMATION

(PART NUMBER) **A E** (PART NUMBER)

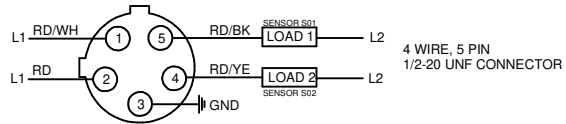
WORLD SWITCH ASSEMBLY

WORLD SWITCH SENSOR POSITION

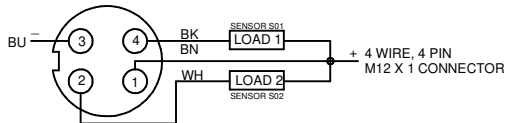
**A** DC TURCK 4-PIN (PNP)  
#Ni2-Q6.5-AP6-0.1-FS 4.4x3/S304



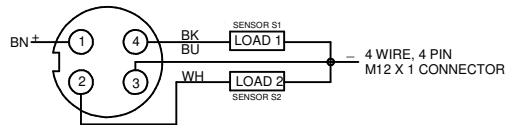
**B** AC/DC TURCK 5-PIN (N.O.)  
#Ni2-Q6.5-ADZ32-0.1-FSB 5.4x4/S304



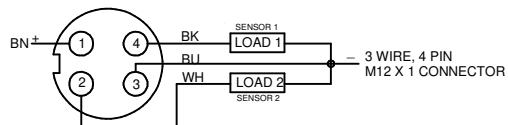
**C** DC TURCK 4-PIN (NPN)  
#Ni2-Q6.5-AN6-0.1-FS 4.4x3/S304



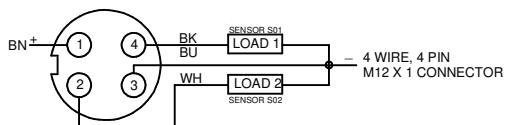
**D** DC PEPPERL & FUCHS 4-PIN (PNP)  
#NBN2-F581-100S6-E8-V1



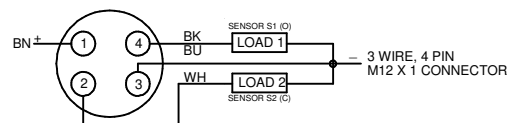
**E** DC BALLUFF 4-PIN (PNP)  
#BES-Z02KR2-PSC20F-P100-S04



**H** DC TURCK 4-PIN (PNP)  
#Ni2-Q6.5-0.1-BDS-2AP6X3-H1141/S34



**J** DC EFFECTOR 4-PIN (PNP)  
#IN5374



## SENSOR POSITION

**E** Sensor 01-Unclamped (Pin Extended, Load/Unload Position)  
Sensor 02-Clamped (Pin Retracted)

**R** Sensor 01-Clamped (Pin Retracted)  
Sensor 02-Unclamped (Load/Unload Position)

Note: Sensor 01 displays an amber LED. Sensor 02 displays a red LED

(DO NOT SCALE DRAWING)

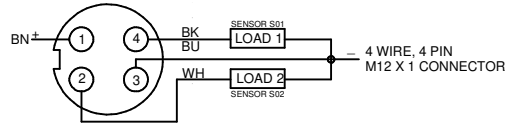
# WORLD SWITCH INFORMATION

(PART NUMBER) **S E** (PART NUMBER)

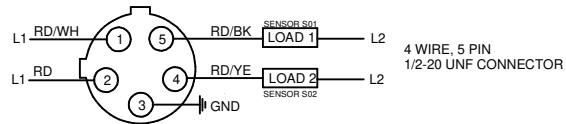
WORLD SWITCH ASSEMBLY

WORLD SWITCH SENSOR POSITION

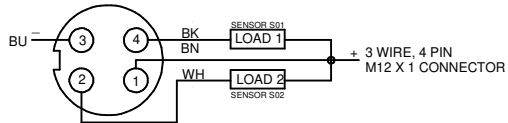
**S** DC TURCK 4-PIN (PNP)  
Ni2-Q6.5-AP6-0.16-FS 4.4X3/S304



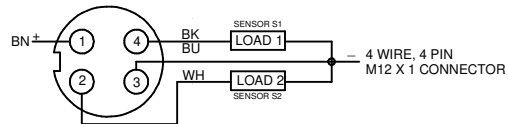
**T** AC/DC TURCK 5-PIN (N.O.)  
Ni2-Q6.5-ADZ32-0.16-FSB 5.4X4/S304



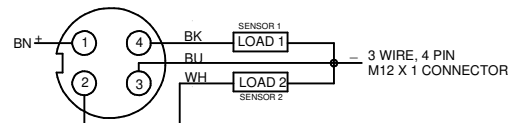
**U** DC TURCK 4-PIN (NPN)  
Ni2-Q6.5-AN6-0.16-FS 4.4X3/S304



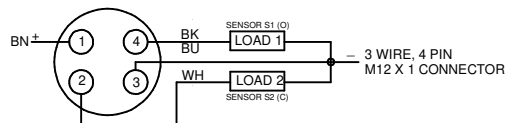
**V** DC PEPPERL & FUCHS 4-PIN (PNP)  
NBN2-F581-160S6-E8-V1



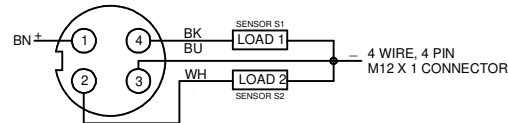
**W** DC BALLUF 4-PIN (PNP)  
BES-Z02KR2-PSC20F-P165-S04-V



**Y** DC EFECTOR 4-PIN (PNP)  
IN5375



**Z** DC WELKER 4-PIN (PNP)  
WWS001A



## SENSOR POSITION

**E** Sensor 01-Unclamped (Pin Extended, Load/Unload Position)  
Sensor 02-Clamped (Pin Retracted)

**R** Sensor 01-Clamped (Pin Retracted)  
Sensor 02-Unclamped (Load/Unload Position)

Note: Sensor 01 displays an amber LED. Sensor 02 displays a red LED

(DO NOT SCALE DRAWING)

**WELKER**  
ENGINEERED PRODUCTS  
800-229-0890 [www.welkerproducts.com](http://www.welkerproducts.com)