Fluid Power



WORLD CLASS SENSORS AND DOWNTIME REDUCTION SERVICES TO APPLY THEM



Serving the owners and operators of automated machinery with world class sensor products and downtime reduction services to apply them.





Automated Welding Sensors



Safety Light Curtains



Ultrasonic Sensors



Colored LED Touch Buttons



IO-Link LED Dome Lights



Linear LED Machine Lights

Proximity Sensors



Sensor Cables & Protection



Sensor Protection Devices



Multi-Colored LED Dome Lights



IO-Link LED Stack Lights



Field Connectors - 4, 5, 8-pin



Field Connectors



Distribution Blocks



Signal Column Lights



IO-Link LED Machine Lights



Sensor Cables - 4, 5, 8-pin



Photoelectric Sensors



Pneumatic Cylinder Sensors



Thermo Sensors



Signal Tower Lights



Panel Mounts



Lighting Accessories

EXTENDED RANGE / LONG RANGE PROXIMITY SENSORS

HIM









<u>101010</u>101010101010101010101010

- EXTENDED RANGE SENSORS FOR AUTOMATED MACHINERY
- DOUBLE THE RANGE OF STANDARD SENSORS FOR RELIABLE DETECTION
- > TIGHT HYSTERESIS FOR A REPEATABLE SENSING RANGE
- HIGH-TORQUE BARREL IS EXTRA THICK FOR MORE DURABILITY
- WRENCH FLATS AND 4-VIEW LED FOR EASY INSTALLATION
- > IDEAL FOR USE IN ALL TYPES OF MACHINES FOR PART DETECTION
- LONG RANGE SENSORS FOR AUTOMATED MACHINERY
- > UP TO 3 TIMES THE STANDARD RANGE FOR RELIABLE DETECTION
- > ALLOWS THE SENSOR TO BE MOUNTED FURTHER AWAY TO AVOID CONTACT
- GREAT FOR ANGLED PARTS WHERE THE TARGET CAN BE A VARIABLE DISTANCE
- > AVAILABLE WITH A PRE-WIRED CABLE, PIGTAIL, OR QUICK-CONNECTOR
- > IDEAL FOR USE IN MACHINES WHERE THE TARGET IS FURTHER AWAY

EXTENDED RANGE / LONG RANGE PROXIMITY SENSORS SPECIFICATIONS



Extended Range

SENSING DISTANCE	2 mm	2 mm	4 mm	8 mm	15 mm			
OPERATING VOLTAGE			10-30 VDC					
OPERATING TEMPERATURE			-25 °C - +70 °C					
MOUNTING STYLE		Shielded						
HOUSING MATERIAL	Stainless Steel Chrome Plated Brass							
Part Numbers								
DC 3-wire 10-30 V PNP - Open	0CN1-0802P-ACL3	OCN1-0802P-ARL4	OCN1-1204P-ARL4	0CN1-1808P-ARL4	OCN1-3015P-ARL4			
DC 3-wire 10-30 V PNP - Closed	OCN1-0802P-BCL3	0CN1-0802P-BRL4	0CN1-1204P-BRL4	OCN1-1808P-BRL4	OCN1-3015P-BRL4			
DC 3-wire 10-30 V NPN - Open	0CN1-0802N-ACL3	OCN1-0802N-ARL4	0CN1-1204N-ARL4	0CN1-1808N-ARL4	OCN1-3015N-ARL4			
DC 3-wire 10-30 V NPN - Closed	OCN1-0802N-BCL3	0CN1-0802N-BRL4	0CN1-1204N-BRL4	OCN1-1808N-BRL4	OCN1-3015N-BRL4			
DC 2-wire 10-60 V - Open	OCN1-0802C-ACL3	OCN1-0802C-ARL4	0CN1-1204C-ARL4	0CN1-1808C-ARL4	OCN1-3015C-ARL4			
DC 2-wire 10-60 V - Closed	OCN1-0802C-BCL3	0CN1-0802C-BRL4	0CN1-1204C-BRL4	0CN1-1808C-BRL4	OCN1-3015C-BRL4			

Long Range

SENSING DISTANCE	3 mm 3 mm		6 mm	12 mm	22 mm		
OPERATING VOLTAGE		·	10-30 VDC				
OPERATING TEMPERATURE			-25 °C - +70 °C				
HOUSING MATERIAL	Stainles	ss Steel		Chrome Plated Brass			
Shielded							
DC 3-wire 10-30 V PNP - Open	LCU1-0803P-ACU3	LCU1-0803P-ARU4	LCM1-1206P-ARU4	LCM1-1812P-ARU4	LCM1-3022P-ARU4		
DC 3-wire 10-30 V PNP - Closed	LCU1-0803P-BCU3	LCU1-0803P-BRU4	LCM1-1206P-BRU4	LCM1-1812P-BRU4	LCM1-3022P-BRU4		
DC 3-wire 10-30 V NPN - Open	LCU1-0803N-ACU3	LCU1-0803N-ARU4	LCM1-1206N-ARU4	LCM1-1812N-ARU4	LCM1-3022N-ARU4		
DC 3-wire 10-30 V NPN - Closed	LCU1-0803N-BCU3	LCU1-0803N-BRU4	LCM1-1206N-BRU4	LCM1-1812N-BRU4	LCM1-3022N-BRU4		
Quasi Shielded Sensing Range	4 mm	4 mm	8 mm	16 mm	25 mm		
DC 3-wire 10-30 V PNP - Open	LCN1-0804P-ACL3	LCN1-0804P-ARL4	LCN1-1208P-ARL4	LCN1-1816P-ARL4	LCN1-3025P-ARL4		
DC 3-wire 10-30 V NPN - Open	LCN1-0804N-ACL3	LCN1-0804N-ARL4	LCN1-1208N-ARL4	LCN1-1816N-ARL4	LCN1-3025N-ARL4		

Short body versions available upon request.

NOTE: Specifications subject to change without notification.

MINIATURE INDUCTIVE PROXIMITY SENSORS

HIM











- > MINIATURE SENSORS FOR SENSING METAL OBJECTS IN SMALL SPACES
- > IDEAL FOR APPLICATIONS WHERE THE PART PLACEMENT IS REPEATABLE AND TIGHT IN TOLERANCE
- IDEAL FOR APPLICATIONS WHERE A SMALL SENSING DISTANCE IS REQUIRED FOR RELIABLE DETECTION
- > AVAILABLE IN ANY PRE-WIRED CABLE LENGTH OR PIGTAILED CABLE LENGTH
- > AVAILABLE IN M8 QUICK-CONNECT FOR EASY INSTALLATION
- MOST MODELS AVAILABLE IN EXTENDED RANGE OR LONG RANGE VERSIONS

MINIATURE INDUCTIVE PROXIMITY SENSORS SPECIFICATIONS



Extended Range

SENSING DISTANCE	0.8 mm	0.8 mm	1 mm	1 mm	1 mm					
OPERATING V OLTAGE	10-30 VDC									
OPERATING TEMPERATURE			-25 °C - +70 °C							
MOUNTING STYLE			Shielded							
HOUSING MATERIAL		Stainless Steel / PBT Sensing Face								
PART NUMBERS - 2 m CABLE VERSION - EXTENDED RANGE										
DC 3-wire PNP - NO	FCU1-D0301P-A3U2	FCU1-D0401P-A3U2	FCU1-0401P-A3U2	FCU1-0501P-A3U2	FCU1-D0601P-A3U2					
DC 3-wire PNP - NC	FCU1-D0301P-B3U2	FCU1-D0401P-B3U2	FCU1-0401P-B3U2	FCU1-0501P-B3U2	FCU1-D0601P-B3U2					
DC 3-wire NPN - NO	FCU1-D0301N-A3U2	FCU1-D0401N-A3U2	FCU1-0401N-A3U2	FCU1-0501N-A3U2	FCU1-D0601N-A3U2					
DC 3-wire NPN - NC	FCU1-D0301N-B3U2	FCU1-D0401N-B3U2	FCU1-0401N-B3U2	FCU1-0501N-B3U2	FCU1-D0601N-B3U2					
0.3 m Cable to M8 3-Pin Con	nector- EXTENDED RANGE									
DC 3-wire PNP - NO	FCU1-D0301P-A3U0.3/P8	FCU1-D0401P-A3U0.3/P8	FCU1-0401P-A3U0.3/P8	FCU1-0501P-A3U0.3/P8	FCU1-D0601P-A3U0.3/P8					
DC 3-wire PNP - NC	FCU1-D0301P-B3U0.3/P8	FCU1-D0401P-B3U0.3/P8	FCU1-0401P-B3U0.3/P8	FCU1-0501P-B3U0.3/P8	FCU1-D0601P-B3U0.3/P8					
DC 3-wire NPN - NO	FCU1-D0301N-A3U0.3/P8	FCU1-D0401N-A3U0.3/P8	FCU1-0401N-A3U0.3/P8	FCU1-0501N-A3U0.3/P8	FCU1-D0601N-A3U0.3/P8					
DC 3-wire NPN - NC	FCU1-D0301N-B3U0.3/P8	FCU1-D0401N-B3U0.3/P8	FCU1-0401N-B3U0.3/P8	FCU1-0501N-B3U0.3/P8	FCU1-D0601N-B3U0.3/P8					

Long Range

SENSING DISTANCE	-	1.5 mm	-	1.5 mm	3 mm				
OPERATING VOLTAGE	10-30 VDC								
OPERATING TEMPERATURE			-25 °C - +70 °C						
MOUNTING STYLE			Shielded						
HOUSING MATERIAL		Si	tainless Steel / PBT Sensing Fac	ce					
PART NUMBERS - 2 m CABLE VERSION - LONG RANGE									
DC 3-wire PNP - NO		LCU1-D0401.5P-A3U2		LCU1-0501.5P-A3U2	LCU1-D0603P-A3U2				
DC 3-wire PNP - NC		LCU1-D0401.5P-B3U2		LCU1-0501.5P-B3U2	LCU1-D0603P-B3U2				
DC 3-wire NPN - NO		LCU1-D0401.5N-A3U2		LCU1-0501.5N-A3U2	LCU1-D0603N-A3U2				
DC 3-wire NPN - NC		LCU1-D0603N-B3U2							
0.3 m Cable to M8 3-Pin Con	nector - LONG RANGE								
DC 3-wire PNP - NO		LCU1-D0401.5P-A3U0.3/P8		LCU1-0501.5P-A3U0.3/P8	LCU1-D0603P-A3U0.3/P8				
DC 3-wire PNP - NC		LCU1-D0401.5P-B3U0.3/P8		LCU1-0501.5P-B3U0.3/P8	LCU1-D0603P-B3U0.3/P8				
DC 3-wire NPN - NO		LCU1-D0401.5N-A3U0.3/P8		LCU1-0501.5N-A3U0.3/P8	LCU1-D0603N-A3U0.3/P8				
DC 3-wire NPN - NC		LCU1-D0401.5N-B3U0.3/P8		LCU1-0501.5N-B3U0.3/P8	LCU1-D0603N-B3U0.3/P8				

NOTE: Specifications subject to change without notification.

TOLL FREE: 1-800-644-1756













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> QUICK-CONNECT SENSOR CABLES FOR SENSOR CONNECTIONS

- > LOW PRICES WITH THOUSANDS IN STOCK FOR SAME-DAY SHIPPING
- > AVAILABLE IN LOW-COST PVC, OIL-RESISTANT PUR, AND SPATTER RESISTANT TPE
- AVAILABLE IN YELLOW, BLACK OR GREY OR CUSTOM COLORS
- > AVAILABLE IN STANDARD 5 m LENGTH, OR ANY CUSTOM LENGTH
- > ANY STYLE AVAILABLE WITH PRE-INSTALLED PROTECTIVE SILICONE JACKET

QUICK-CONNECT SENSOR CABLES SPECIFICATIONS

M8	U Co			2		2
CONNECTION	M8	PVC	M8	PUR	M8	TPE
CONNECTOR	Female Straight	Female Angled	Female Straight	Female Angled	Female Straight	Female Angled
Cable Material	Low-Ce	ost PVC	Oil-Resis	tant PUR	Weld Spatter	Resistant TPE
WIRE GAUGE			22 /	AWG	1	
THREADED CONNECTOR			Nickel-pla	ited Brass		
NOMINAL VOLTAGE			250 VAC/300 VDC (10	-30 VDC LED models)		
PROTECTION			IP	67		
PART NUMBERS						
3-pin / 3-wire	C-FS3TZ-V075	C-FA3TZ-V075	C-FS3TZ-P665	C-FA3TZ-P665	C-FS3TZ-T665	C-FA3TZ-T665
3-pin / 3-wire - PNP LED		C-FA3TP-V075				C-FA3TP-T665
3-pin / 3-wire - NPN LED		C-FA3TN-V075				C-FA3TN-T665
4-pin / 4-wire	C-FS4TZ-V075	C-FA4TZ-V075	C-FS4TZ-P665	C-FA4TZ-P665	C-FS4TZ-T665	C-FA4TZ-T665
	1. A.			>		2
CONNECTION	M12	PI/C	M12	DIR	M1	2 TPE
CONNECTOR	Female Straight	Female Angled	Female Straight	Female Angled	Female Straight	Female Angled
CABLE MATERIAL	Low-Co	1		stant PUR		Resistant TPE
WIRE GAUGE		001110		AWG	Wold Opation	
THREADED CONNECTOR		Nickel-pla			PTFF Coa	ated Brass
NOMINAL VOLTAGE)-30 V DC LED models)		
PROTECTION			IP			
PART NUMBERS						
4-pin / 4-wire	R-FS4TZ-V075		R-FS4TZ-P665	R-FA4TZ-P665	R-FS4TZ-T665	R-FA4TZ-T665
			11104121003	1174121003	1110412 1000	117412 1003
4-pin / 3-wire - PNP LED	R-FS4/3TP-V075					
4-pin / 3-wire - NPN LED	R-FS4/3TN-V075					
5-pin / 5-wire	R-FS5TZ-V075		R-FS5TZ-Y075	R-FA5TZ-Y075		
8-pin / 8-wire	R-FS8TZ-V075		R-FS8TZ-Y095	R-FA8TZ-Y095		
For Food Grade Stainless Steel Nuts	Add -SS on the end of the	e part #				
For Weld Grade PTFE Coated Nuts	Add -PTFE on the end of	the part #				
For 18AWG wires	Add -18AWG on the end	of the part #				
For Factory Pre-Installed Silicone Sleeve	Add - S on the end of the	part #				
For custom lengths	Change "5" on the end o	f the part # to the desired I	ength in meters			
For male connectors	Change "F" in the part #	to "M"				
For custom colors	For PVC Cables, add - Bla	ack, -Grey, -Yellow, or -Orar	nge to the end of the part #	ł		
NOTE: Specifications subject	t to change without notification	on.				

NOTE: Specifications subject to change without notification.

H30 PHOTOELECTRIC SENSORS WITH I/O LINK











- MINIATURE HOUSING
- > SENSITIVITY ADJUSTMENT VIA POTENTIOMETER
- > IO-LINK FOR PROCESS OPTIMIZATION
- EXCELLENT BLACK/WHITE BEHAVIOR
- IMMUNITY TO MUTUAL INTERFERENCES

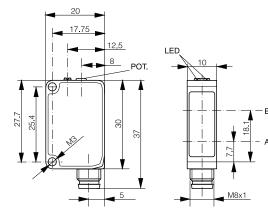
H30 PHOTOELECTRIC SENSORS
WITH I/O LINK SPECIFICATIONS

	THRU-BEAM	DIFFUSE	RETROREFLECTIVE	BACKGROUND SUPPRESSION	CLEAR OBJECT DETECTION	
	A HILL		and the second s		A State	
SENSING RANGE TYP. MAX.	30 m	1.5 m	8 m	300 mm	5 m	
LIGHT SOURCE	N/A	Red LED 630 nm	Red LED 630 nm	PinPoint Red LED 640 nm	Red LED 630 nm	
LIGHT SPOT SIZE (DISTANCE)	N/A	ø 15 mm @ 500 m / ø 26 mm @ 1 m	ø 30 mm @ 1 m / ø 140 mm @ 6 m	ø 6 mm @ 100 m / ø 10 mm @ 300 m	ø 40 mm @ 1 m	
INDICATOR LED	Output: Yellow Excess Gain: Green	Output: Yellow Excess Gain: Green	Output: Yellow Excess Gain: Green	Output: Yellow Excess Gain: Green	Output: Yellow Excess Gain: Green	
SUPPLY VOLTAGE RANGE (UB)			10-30 V DC	·	·	
IO-LINK	\checkmark	✓	✓	✓	✓	
SHORT CIRCUIT PROTECTION	✓	√	√	√	✓	
REVERSE POLARITY PROTECTION	\checkmark	√	√	√	✓	
RESPONSE TIME ¹	<= 500 µs (normal) / <=1 ms / <= 250 µs	<= 340 µs (normal) / <=1 ms / <= 100 µs	<= 340 µs (normal) / <=1 ms / <= 100 µs	<= 500 µs (normal) / <=1 ms / <= 250 µs	<= 340 µs (normal) / <=1 ms / <= 100 µs	
OUTPUT TYPE			PNP Complementary			
OPERATION MODE			Light On or Dark on Selectable wiring			
HOUSING MATERIAL			ABS			
LENS MATERIAL			PMMA			
IP RATING			IP67			
CABLE OR CONNECTOR			4-Pin M8 Male QD			
PART NUMBERS						
DC Emitter QD	H30-TTX-30000D-M8-3QD					
PNP	H30-TRX-30000P-M8-4QD	H30-DIF-1500P-M8-4QD	H30-RET-8000P-M8-4QD	H30-BGS-0300P-M8-4QD	H30-COD-5000P-M8-4QD	
NPN	H30-TRX-30000N-M8-4QD	H30-DIF-1500N-M8-4QD	H30-RET-8000N-M8-4QD	H30-BGS-0300N-M8-4QD	H30-COD-5000N-M8-4QD	
DC Emitter Pre-wired	H30-TTX-30000D-2M					
PNP Pre-wired	H30-TRX-30000P-2M	H30-DIF-1500P-2M	H30-RET-8000P-2M	H30-BGS-0300P-2M	H30-C0D-5000P-2M	
NPN Pre-wired	H30-TRX-30000N-2M	H30-DIF-1500N-2M	H30-RET-8000N-2M	H30-BGS-0300N-2M	H30-COD-5000N-2M	

NOTE: Specifications subject to change without notification. ¹By default, "Normal" mode. "Fine" and "Fast" modes selectable via IO-Link.



IO-LINK FUNCTIONALITIES							
IO-Link version: 1.0	SIO mode: Supported	Process data: Detection state & stability alarm	Baudrate: COM2 (38.4 kBaud)				
Special functions: Output configuration, output timing, sensor mode, detection counter, event flags, maximum and actual sensor temperature							



A: emitter axis B: receiver axis

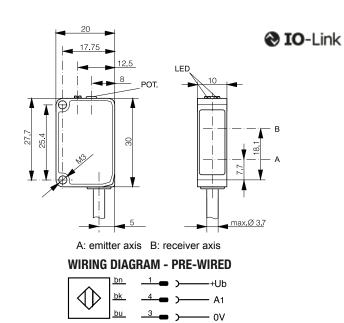
PINS

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M8

WIRING DIAGRAM - 4-PIN QD













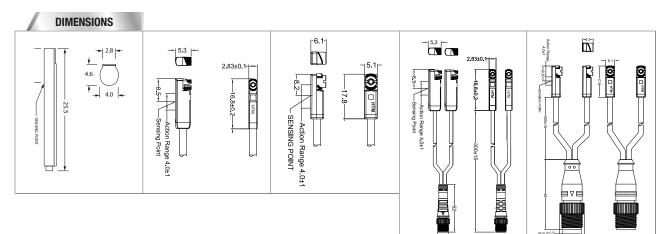


- > PNEUMATIC CYLINDER SENSORS FOR THE RELIABLE CONTROL OF PNEUMATIC ACTUATORS
- SINGLE AND DUAL HEAD DESIGNS
- > SLIM FIT PLASTIC HOUSINGS FOR EASY MOUNTING, OR RUGGED METAL HOUSINGS FOR TOUGH APPLICATIONS
- > MOUNTING FOR POPULAR ACTUATOR PROFILES INCLUDING T-SLOT, C-SLOT AND TUBULAR
- > DROP-IN REPLACEMENTS FOR POPULAR FESTO® STYLE, SMC® STYLE AND CANFIELD® STYLE
- > AVAILABLE WITH M8 OR M12 PIGTAIL CONNECTORS, OR WITH PRE-WIRED CABLES
- > AVAILABLE WITH PNP, NPN OR REED OR AUTO SELECT

PNEUMATIC CYLINDER SENSORS SPECIFICATIONS

	C.	-SLOT	DROP-IN C-SLOT	DROP-IN T-SLOT	DROP-IN DUAL C-SLOT	DROP-IN DUAL T-SLO
			and the second s			
DIMENSIONS (mm)	4 D x 4.6	H x 25.5 L	2.8 W x 5.3 H x 17 L	5.1 W x 6.1 H x 18 L	2.8 W x 5.3 H x 17 L	5.1 W x 6.1 H x 18 L
OPERATING VOLTAGE SOLID STATE	5-28 V DC		5-30 V DC	5-30 V DC	5-30 V DC	5-30 V DC
OPERATING VOLTAGE REED	5-120 V AC/DC		_	-	_	_
CONNECTION	PRE-WIRED	0.3 m PIGTAIL	0.3 m PIGTAIL	0.3 m PIGTAIL	0.3 m PIGTAIL	0.3 m PIGTAIL
CONNECTOR	-	M8 3-PIN	M8 3-PIN	M8 3-PIN	M12 4-PIN	M12 4-PIN
PART NUMBERS						
PNP VERSION - Open	PCSC-04/25P- A3U3	PCSC-04/25P- A3U0.3/P8	PCDC-05/17S-A3S0.3/P8	PCDT-06/18S-A3S0.3/P8	PCDC-D05/17S-A4S0.3/P12	PCDT-D06/18S-A4S0.3/P12
NPN VERSION - Open	PCSC-04/25N- A3U3	PCSC-04/25N- A3U0.3/P8	(Auto Select PNP/NPN)	(Auto Select PNP/NPN)	(Auto Select PNP/NPN)	
REED VERSION - Open	PCSC-04/25R- A3U3	PCSC-04/25R- A3U0.3/P8	_	-	-	-
MATING CABLE	_	C-FS3TZ-V885	C-FS3TZ-V885	C-FS3TZ-V885	R-FS4TZ-V885	R-FS4TZ-V885

 $\ensuremath{\mathsf{NOTE}}\xspace$ Specifications subject to change without notification.



C-SLOT BRACKETS			I0161		
TIE ROD C	CYLINDERS	ROUND CYLINDERS			
PC+PCE	PC+PCD	PCB-01	PCB-02		
1-1/2" - 2-1/2" BORE	3-1/4" - 8" BORE	244 mm BAND	485 mm BAND		
			A DECEMBER OF COLOR		







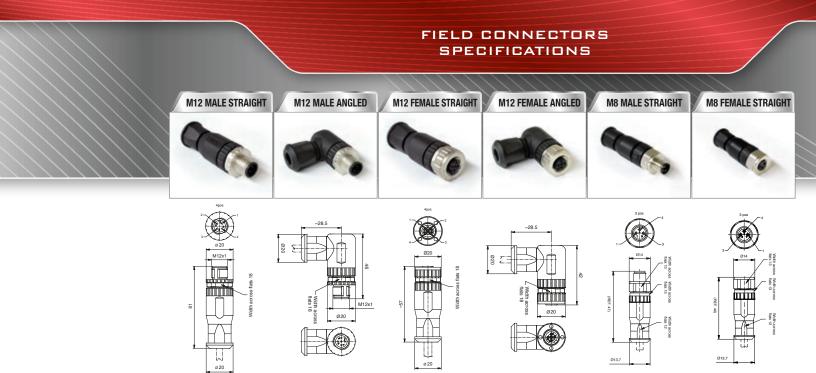






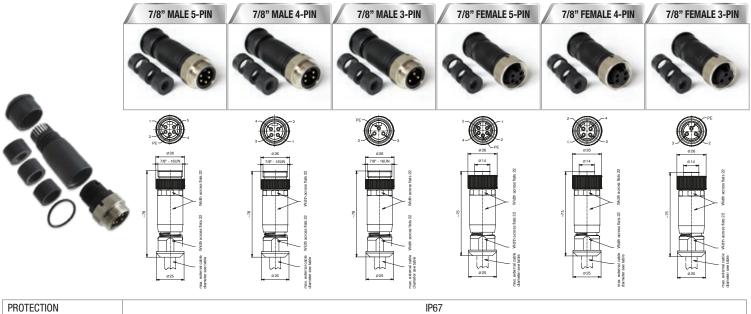


- FIELD CONNECTORS FOR QUICK CABLE REPAIRS AND CONNECTIONS
- > LOW PRICES WITH THOUSANDS IN STOCK FOR SAME-DAY SHIPPING
- > METAL SCREW TERMINALS FOR A TIGHT CONNECTION
- AVAILABLE IN M12, M8 AND MINI SIZES
- PERFECT SOLUTION TO MATE CABLES TO DISTRIBUTION BLOCKS
- COMPATIBLE WITH DEVICENET BLOCK CONNECTIONS



PROTECTION	IP67								
CONNECTION MODE		Screw Clamps							
PART NUMBERS									
M12 Micro - 4-Pin *	FC-12MS4P-PG7/9	FC-12MA4P-PG7/9	FC-12FS4P-PG7/9	FC-12FA4P-PG7/9					
M8 Pico - 3-Pin					FC-08MS3P-PG7	FC-08FS3P-PG7			
M8 Pico - 4-Pin					FC-08MS4P-PG7	FC-08FS4P-PG7			

* M12 Micro - 4-Pin connectors can be utilized in PG7 and PG9 applications. Stock one part for both sizes.



PROTECTION	IP67							
CONNECTION MODE		Screw Clamps						
PART NUMBERS								
7/8" Mini Field Connectors	FC-78MS5P-PG9	FC-78MS4P-PG9	FC-78MS3P-PG9	FC-78FS5P-PG9	FC-78FS4P-PG9	FC-78FS3P-PG9		

* 7/8" Mini connectors can be utilized in PG9, PG11 and PG13.5 applications. Stock one part for all sizes.

SOLENDID CABLES









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> INDUSTRY STANDARD FORMS (A, B, BI, C, CI)

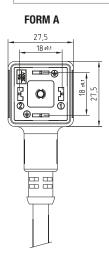
- > AVAILABLE WITH LED AND/OR BUILT-IN SUPPRESSION
- > SUPPLIED WITH NBR GASKETS
- BUILT-IN LABEL PLATE
- > PVC OR PUR CABLE JACKET AVAILABLE

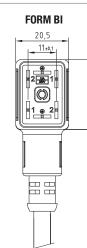
SOLENDID CABLES SPECIFICATIONS

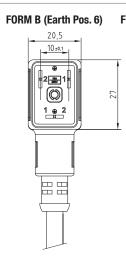
	FORM A	FORM B INDUSTRIAL	FORM B	FORM C INDUSTRIAL	FORM C
	0		Contraction of the second seco		
FEMALE CONNECTOR	Angled	Angled	Angled	Angled	Angled
CONTACT SPACING	18 mm	11 mm	10 mm	9.4 mm	8 mm
NUMBER OF POLES	2 + 2 PE	2 + PE	2 + PE	2 + 2 PE	2 + 2 PE
EARTH POSITION	12 & 6 12 & 6		12 or 6	12 & 6	12 & 6
CABLE MATERIAL		1	PVC	11	
SECURING SCREW	M3 x 0.5 L28 mm		M3 x 0.5 L22.5 mm	M2.5 x 0.5 L22.5 mm	
PROTECTION			IP67		
PART NUMBERS					
24 V AC/DC with LED and MOV	V-AFA2V/R1C-V535	V-B1FA2V/R1C-V535	V-BFA2V/R1A-V535 (Earth position 6) V-BFA2V/R1B-V535 (Earth position 12)	- V-C1FA2V/R1C-V535	V-CFA2V/R1C-V535
115 V AC/DC with LED and MOV	V-AFA2V/R2C-V535	V-B1FA2V/R2C-V535	V-BFA2V/R2A-V535 (Earth position 6) V-BFA2V/R2B-V535 (Earth position 12)	V-C1FA2V/R2C-V535	V-CFA2V/R2C-V535
230 V AC/DC No LED or Suppression	V-AFA2U/N0C-V535	V-B1FA2U/N0C-V535	V-BFA2U/N0A-V535 (Earth position 6) V-BFA2U/N0B-V535 (Earth position 12)	- V-C1FA2U/N0C-V535	V-CFA2U/N0C-V535

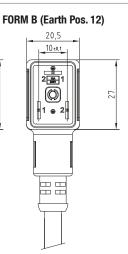
Custom lengths and connector styles are available. NOTE: Specifications subject to change without notification.

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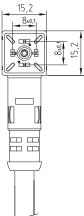










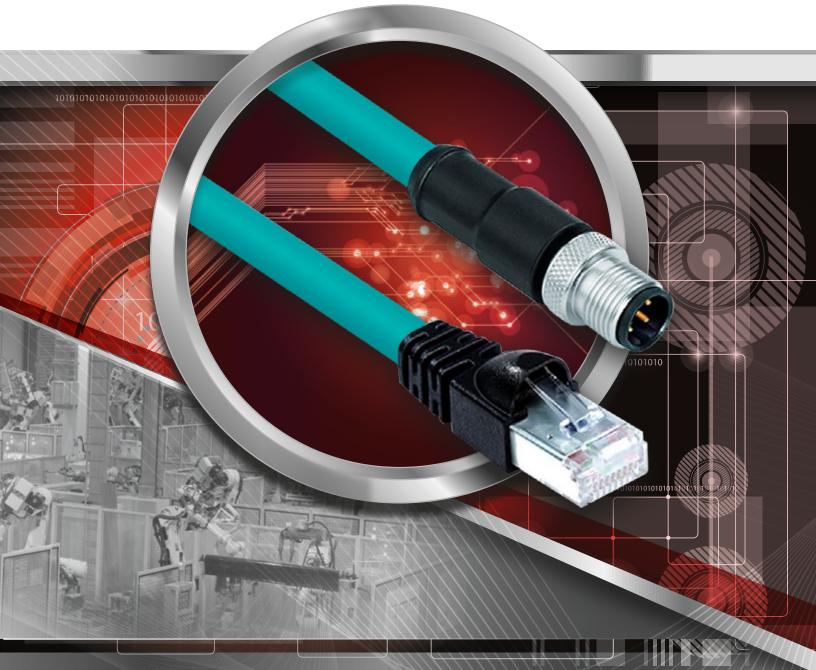


	FORM A	FORM BI	FORM B	FORM CI	FORM C
SOLENOID Field Connectors					F
24 V AC/DC LED and MOV	FC-AFA2V/R1-PG9/11T	FC-B1FA2V/R1-PG9T		FC-C1FA2V/R1-PG7T	FC-CFA2V/R1-PG7T
230 V AC/DC	FC-AFA2U/N0-PG9/11	FC-B1FA2U/N0-PG9	FC-BFA2U/N0-PG9	FC-C1FA2U/N0-PG7	FC-CFA2U/N0-PG7

ETHERNET CABLES







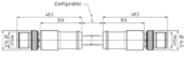
- > ETHERNET CABLES FOR HIGH MOTION APPLICATIONS SUCH AS ROBOTS AND SERVOS
- > INTERNAL SHIELDING REDUCES EFFECT OF EMI NOISE
- M12 D-CODED, X-CODED, RJ45 TERMINATION
- ➢ IP67 PROTECTION RATING

ETHERNET CABLES SPECIFICATIONS

SERIES			DS ETHERNET				
CONNECTOR LOCKING SYSTEM	RJ45/M12						
WIRE GAUGE (AWG)			24				
DEGREE OF PROTECTION		IP20 (with RJ45	connector) / IP67 (with Male to	Male connector)			
TEMPERATURE RANGE			-25 °C - 85 °C	,			
RATED VOLTAGE			50				
RATED CURRENT			1.5 A				
VOLUME RESISTIVITY			≤ 3 mΩ				
MATERIAL OF CONTACT		CuZn (Brass)					
CONTACT PLATING		Au (gold)					
HOUSING MATERIAL		PUR					
APPROVAL 1			UL				
CABLE JACKET	TPE						
INSULATION SINGLE LEAD	Polyolefin						
BENDING CYCLES	2 Mio.						
CABLE DIAMETER	6.6						
PART NUMBERS (BY LENGTH)*	0.3 m	0.6 m	1 m	5 m	10 m		
M12 MALE TO M12 MALE	DS-MS4TZ-T970.3+DS-MS	DS-MS4TZ-T970.6+DS-MS	DS-MS4TZ-T971+DS-MS	DS-MS4TZ-T975+DS-MS	DS-MS4TZ-T9710+DS-MS		
M12 MALE TO RJ45	DS-MS4TZ-T970.3+RJM45	DS-MS4TZ-T970.6+RJM45	DS-MS4TZ-T971+RJM45	DS-MS4TZ-T975+RJM45	DS-MS4TZ-T9710+RJM45		
RJ45 T0 RJ45	DS-RJM45-T970.3+RJM45 DS-RJM45-T970.6+RJM45 DS-RJM45-T971+RJM45 DS-RJM45-T975+RJM45 DS-RJM45-T9710+RJM45						

*Available in additional lengths of 2 m, 3 m, 15 m, 20 m, 25 m and 30 m.



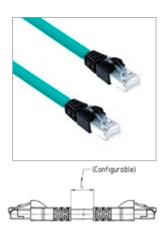


D-CODED MALE TO MALE CONNECTOR

FIELD CONNECTORS



D-CODED MALE TO RJ45 CONNECTOR



D-CODED RJ45 CONNECTOR TO RJ45 CONNECTOR

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MALE STRAIGHT	FEMALE STRAIGHT	RJ45
FC-12DMS4P-PG7/9	FC-12DFS4P-PG7/9	FC-RJM45

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SAFETY LIGHT CURTAINS - CATEGORY 4 HAND PROTECTION

HIM

HAND PROTECTION 30 mm / 1/18 in. RESOLUTION



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- CATEGORY 4 SAFETY LIGHT CURTAINS
- ▶ RUGGED C-CHANNEL ALUMINUM HOUSING WITH ROTATING BRACKETS
- > AVAILABLE FROM 6" TO 70" PROTECTIVE HEIGHT
- FAST RESPONSE TIMES, AND LONG 19 m OPERATING DISTANCE
- > AVAILABLE WITH MIRRORS, AND IP69 ENCLOSURES
- > DIGITAL DISPLAY FOR DIAGNOSTICS AND EASY ALIGNMENT

SAFETY LIGHT CURTAINS - CATEGORY 4 HAND PROTECTION SPECIFICATIONS



HAND PROTECTION 30 mm / 1/18 in. RESOLUTION



CABLES (3 m / 10 m)

RELAY



MODEL	BEAMS	RESPONSE TIME	PROTECTIVE HEIGHT	TOTAL HEIGHT
HSC4-30-06	8	9 ms	150 mm (5.91 in.)	233.3 mm
HSC4-30-12	16	11 ms	300 mm (11.81 in.)	383.2 mm
HSC4-30-18	24	13 ms	450 mm (17.72 in.)	533.2 mm
HSC4-30-24	32	15 ms	600 mm (23.62 in.)	683.2 mm
HSC4-30-30	40	16 ms	750 mm (29.53 in.)	833.2 mm
HSC4-30-36	48	18 ms	900 mm (35.43 in.)	983.2 mm
HSC4-30-42	56	19 ms	1050 mm (41.34 in.)	1133.2 mm
HSC4-30-48	64	21 ms	1200 mm (47.24 in.)	1283.3 mm
HSC4-30-54	72	23 ms	1350 mm (53.15 in.)	1433.2 mm
HSC4-30-60	80	25 ms	1500 mm (59.06 in.)	1583.3 mm
HSC4-30-65	88	26 ms	1650 mm (64.96 in.)	1733.3 mm
HSC4-30-70	96	28 ms	1800 mm (70.87 in.)	1883.3 mm

SHOWN: HSC4-30 LIGHT CURTAINS

NOTE: Specifications subject to change without notification.

LED INDICATOR LIGHTS







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DOME INDICATOR LIGHTS

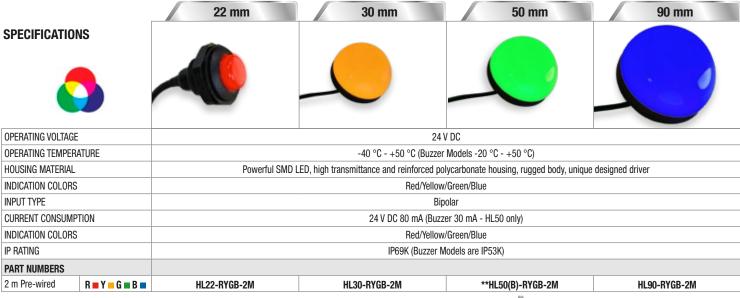
- DISPLAYS 4 COLORS STEADY ON
- > COMPACT AND PATENTED DESIGN, EASY TO SEE OPERATOR GUIDANCE AND EQUIPMENT STATUS
- > IP69K, WATERPROOF, SHOCK PROOF, CORROSION PROOF, OIL PROOF
- > EASY TO USE, NO OTHER CONTROLLER NEEDED

TOWER LIGHTS

- > UNIFORM LIGHT, NO GLARE, ELIMINATE FALSE INDICATION
- COMPACT, MULTI COLORS AVAILABLE
- SPECIALLY DESIGNED BUZZER WITH ADJUSTABLE AUDIO

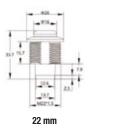
LED INDICATOR LIGHTS SPECIFICATIONS

		HLT50 (no buzzer)	HLT50 (buzzer)					
SPECIFICATION	is					52 0 0 0 0 - 250		
DIAMETER (mm)		50)					
AVAILABLE COLORS		Red/Yellow/Green/Blue/White						
BUZZER		-	70db - 90db @ 2.7Khz		▁▎ └└└			
OPERATING VOLTAG	GE	24 VDC -	+/- 10%					
CURRENT DRAW	PER COLOR	40 mA	max	6	M30*1.5 No buzzer	M30*1.5 With buzzer		
	BUZZER	-	25 mA			- With Buller		
INPUT TYPE		Bi-polar			Tower light Height H			
RESPONSE TIME On/Off 10mS		10mS	Stack	No. human 114	W//Durner 112			
CONNECTION		2 m cable or M12 A-c	oded quick connect		No buzzer H1	W/Buzzer H2		
OPERATING TEMPE	DPERATING TEMPERATURE Without Buzzer -40 °C to +50 °C With Buzzer -20 °C to +50 °C						110mm	133mm
IP RATING IP65 IP53		3	152mm	175mm				
HOUSING MATERIA	L	ABS		4	194mm	217mm		
Lense Material		Polycarl	Polycarbonate		1.2-411111	2171111		
IO-LINK		Please consult factory		5	236mm			

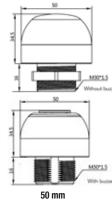


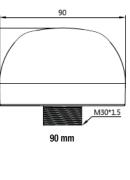
*Please consult factory for touch and buzzer options. **(B) Indicates Buzzer

DIMENSIONS











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