

CATFORD ENGINEERING PRODUCTS

Jamestown
SA 5491

All Prices Excluding GST

Phone: 0418 641 566

www.catford.com.au sales@catford.com.au

Electrical Controls

***Pendant Controllers *Footswitches *Wireless Pendant
Controllers *Universal Electronic Drivers *Wiring Harness
Kits *DIN Plugs**





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PO Box 178, Jamestown, South Australia 5491



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sales@catford.com.au

Due to fluctuations in the Australian dollar and the economic climate, please be advised that all prices are subject to change.
Please contact us to confirm pricing.

All prices stated within are exclusive of GST
(All prices are correct as of January 1st 2024, but Catford Engineering reserve the right to change these prices without notice)

Electrical Controls

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PRODUCTS

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Pendant Controller Single Acting

Part #	List Price \$	Buttons	Function	Cord	IP Rating	Voltage	Connector	E-Stop
KCB21-03	101.00	2	S/A	3 mtr	55	5v - 48v	-	-

Note: Multi-function pendants can be converted to single-acting on request

Pendant Controller Double Acting

Part #	List Price \$	Buttons	Function	Cord	IP Rating	Voltage	Connector	E-Stop
KCB22-03	118.00	2	D/A	3 mtr	55	5v - 48v	-	-
KCB22-10	151.00	2	D/A	10 mtr	55	5v - 48v	-	-
KCB42-05	195.00	4	D/A	5 mtr	55	5v - 48v	-	-
KCB62-05	268.00	6	D/A	5 mtr	55	5v - 48v	-	-

Pendant Controller with E-Stop

Part #	List Price \$	Buttons	Function	Cord	IP Rating	Voltage	Connector	E-Stop
KCB32E-03	165.00	2	D/A	3 mtr	55	5v - 48v	-	Yes
KCB52E-05	232.00	4	D/A	5 mtr	55	5v - 48v	-	Yes
KCB72E-05	316.00	6	D/A	5 mtr	55	5v - 48v	-	Yes

Pendant Controller Quick Connect

Part #	List Price \$	Buttons	Function	Cord	IP Rating	Voltage	Connector	E-Stop
KCB21C-03C	173.00	2	S/A	3 mtr	55	5v - 48v	Yes	No
KCB22C-03C	195.00	2	D/A	3 mtr	55	5v - 48v	Yes	No

KCB Serie for low voltage use only

Pendant Holsters

Part #	List Price \$	Description
KCB-BK	38.00	For use with all KCB pendants

KCB21-03



KCB22-03C



KCB-BK



KCB32E-05



KCB42-05



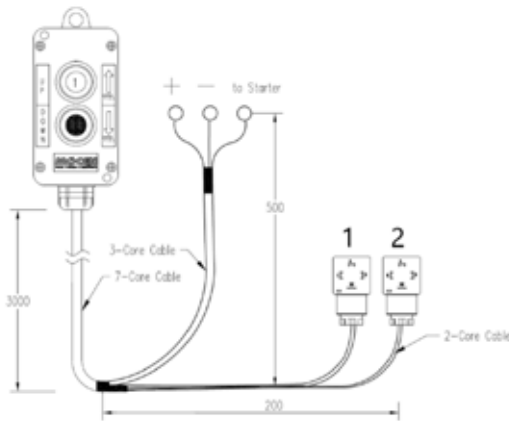
KCB22-03



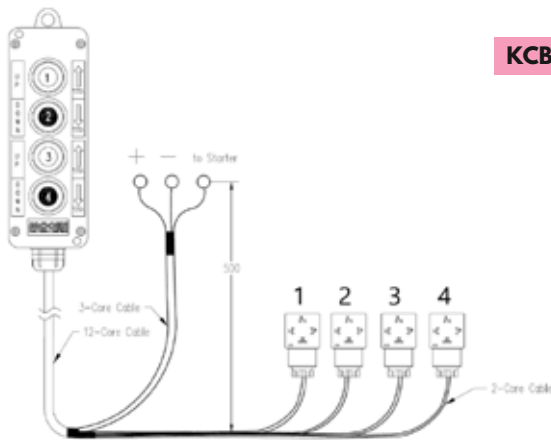
Pendant Controller Double Acting

	Part #	List Price \$	Buttons	Function	Cord	IP Rating	Voltage	Connector	E-Stop
NEW	KCB22-03-DIN	166.00	2	D/A	3 mtr	55	5v - 48v	x2 DIN 43650A	-
NEW	KCB22-10-DIN	220.00	2	D/A	10 mtr	55	5v - 48v	x2 DIN 43650A	-
NEW	KCB42-05-DIN	241.00	4	D/A	5 mtr	55	5v - 48v	x4 DIN 43650A	-
NEW	KCB62-05-DIN	343.00	6	D/A	5 mtr	55	5v - 48v	x6 DIN 43650A	-
NEW	KCB32E-03-DIN	214.00	2	D/A	3 mtr	55	5v - 48v	x2 DIN 43650A	Yes
NEW	KCB32E-10-DIN	268.00	2	D/A	10 mtr	55	5v - 48v	x2 DIN 43650A	Yes
NEW	KCB52E-05-DIN	289.00	4	D/A	5 mtr	55	5v - 48v	x4 DIN 43650A	Yes
NEW	KCB72E-05-DIN	391.00	6	D/A	5 mtr	55	5v - 48v	x6 DIN 43650A	Yes

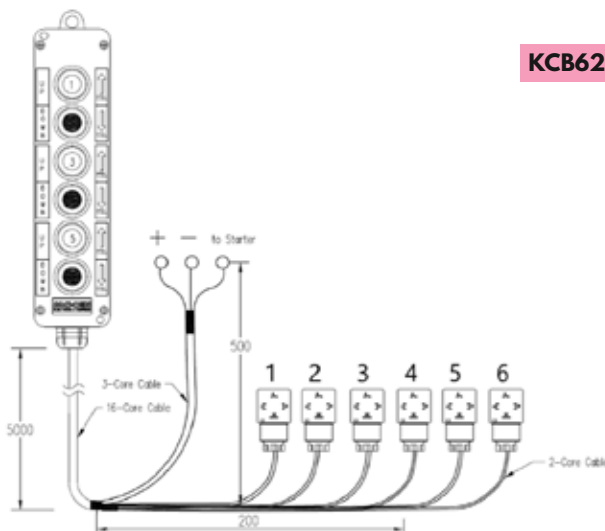
Note: multi-function pendants can be converted to single-acting on request



KCB22-03-DIN



KCB42-05-DIN



KCB62-05-DIN



Pendant Controller - CHARLIE

Buttons	IP Rating	Contact	Button Function	Max Signal Current	Max Input Current	Voltage
2	IP65	N/O	Momentary	3 amp	6 amp	250v AC

Pendant Controller - CHARLIE (no E-Stop)

Part #	List Price \$	Function	Main Cord	Signal Cable	Plug	E-Stop
CHARLIE	212.00	No Loom	-	-	-	-
CHARLIE-21-03	548.00	Single Acting	3000mm	300mm	DIN 43650-A*	-
CHARLIE-22-03	577.00	Double Acting	3000mm	300mm	DIN 43650-A*	-

* DIN plug to be confirmed upon purchase

Pendant Controller - CHARLIE (with E-Stop)

Part #	List Price \$	Function	Main Cord	Signal Cable	Plug	E-Stop
CHARLIE-E	266.00	No Loom	-	-	-	Yes
CHARLIE-21-03E	601.00	Single Acting	3000mm	300mm	DIN 43650-A*	Yes
CHARLIE-22-03E	631.00	Double Acting	3000mm	300mm	DIN 43650-A*	Yes

* DIN plug to be confirmed upon purchase

All CHARLIE pendants can be customised to suit your needs
See page 58



MADE IN EUROPE

Electrical Control Footswitches

Part #	List Price \$	Buttons	Contact	Button Function	Cover	IP Rating	Voltage	Material
D324	141.00	1	NO/NC	Momentary	No	IP40	10 amp/24v AC/ AC15 6 amp/240v AC/ AC15	ABS
D12142V0-M	631.00	1	NO/NC	Momentary	Yes	IP65	4 amp/400v AC/ AC15	ABS Base Aluminium Cover

MADE IN EUROPE



D12142V0-M



MADE IN EUROPE

D324

Pendant Controller - ALPHA

IP Rating	Contact	Button Function	Max Signal Current	Max Input Current	Voltage
IP65	N/O	Momentary	3 amp	6 amp	250v AC

Pendant Controller - ALPHA (without Plug & Play & E-Stop)

Part #	List Price \$	Buttons	Function	Main Cord	Signal Cable	Plug	E-Stop
ALPHA-4	507.00	4	-	-	-	-	-
ALPHA-6	730.00	6	-	-	-	-	-
ALPHA-8	890.00	8	-	-	-	-	-
ALPHA-12	1272.00	12	-	-	-	-	-

Pendant Controller - ALPHA (Plug & Play, no E-Stop)

Part #	List Price \$	Buttons	Function	Main Cord	Signal Cable	Plug	E-Stop
ALPHA-4-03	930.00	4	Double Acting	3000mm	500mm	DIN 43650-A*	-
ALPHA-6-03	1201.00	6	Double Acting	3000mm	500mm	DIN 43650-A*	-
ALPHA-8-03	1519.00	8	Double Acting	3000mm	500mm	DIN 43650-A*	-
ALPHA-12-03	2201.00	12	Double Acting	3000mm	500mm	DIN 43650-A*	-

* DIN plug to be confirmed upon purchase

Pendant Controller - ALPHA (Plug & Play, with E-Stop)

Part #	List Price \$	Buttons	Function	Main Cord	Signal Cable	Plug	E-Stop
ALPHA-4-03E	930.00	4	Double Acting	3000mm	500mm	DIN 43650-A*	Yes
ALPHA-5-03E	1172.00	5	Double Acting	3000mm	500mm	DIN 43650-A*	Yes
ALPHA-7-03E	1478.00	7	Double Acting	3000mm	500mm	DIN 43650-A*	Yes
ALPHA-11-03E	2166.00	11	Double Acting	3000mm	500mm	DIN 43650-A*	Yes

* DIN plug to be confirmed upon purchase

All ALPHA pendants can be customised to suit your needs



MADE IN EUROPE

Modular Controllers to suit CHARLIE & ALPHA

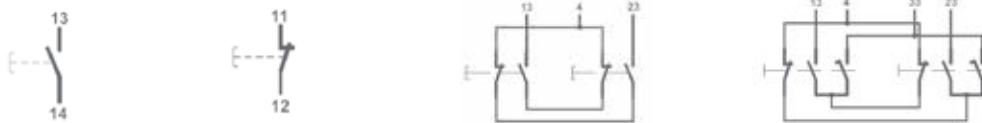
Pendant Controller Interchangeable Switches - Control Element

Part #	List Price \$	Description
PRTS000001	68.00	Single Push Button
PRTD000001	67.00	Double push button to suit PRTA2
PRSL1023PI	44.00	Blanking Plug
PRSL1009PI	129.00	Emergency Stop Mushroom Push Button
PRSL1012PI	102.00	Red Pilot Light
PRSL1013PI	102.00	Yellow Pilot Light
PRSL1014PI	102.00	Green Pilot Light
PRSL1015PI	126.00	Selector Switch 0/1 Spring Return
PRSL1016PI	126.00	Selector Switch 0/1 Maintained Positions
PRSL1026PI	139.00	Selector Switch 1/0/2 Spring Return
PRSL1027PI	139.00	Selector Switch 1/0/2 Maintained Positions
PRSL1017PI	166.00	Key Selector Switch 0/1 Maintained Positions
PRSL1024PI	317.00	Key Selector Switch 0/1 Spring Return

















Pendant Controller Interchangeable Contacts - Single Switches

Part #	List Price \$	Current Rating	Description
PRSL1000PI	55.00	250v AC	1NO
PRSL1001PI	70.00	250v AC	1NC
PRSL1004PI	78.00	250v AC	Lamp Holder (Without Bulb)
PRSL1002PI	71.00	250v AC	Double Switch X 2
PRSL1003PI	113.00	250v AC	Double Switch X 3



Pendant Controller Button Disc Inserts

				
PRTA1000PI	PRTA1001PI	PRTA1002PI	PRTA1003PI	
				
PRTA2004PI	PRTA2005PI	PRTA2006PI	PRTA2007PI	PRTA2008PI
				
PRTA2009PI	PRTA2010PI	PRTA2011PI	PRTA2014PI	PRTA2015PI

Wireless Radio Remote Controls

	Part #	List Price \$	Voltage	Description
NEW	V6PR-2	1,781.00	12v or 24v compatible	Remote control set with override pad on receiver, 2 button transmitter
	V6PR-4	1,898.00	12v or 24v compatible	Remote control set with override pad on receiver, 4 button transmitter
	V6PR-6	1,898.00	12v or 24v compatible	Remote control set with override pad on receiver, 6 button transmitter
NEW	V6HS-2	495.00	12v or 24v compatible	2 button replacement transmitter
	V6HS-4	556.00	12v or 24v compatible	4 button replacement transmitter
	V6HS-6	556.00	12v or 24v compatible	6 button replacement transmitter

- Wiring harness as standard
- Plug and play wiring looms available on request (additional cost applies)

Controllers can be programmed at Hydraulics Network to achieve different requirements.



Plug & Play kits available



V6HS-6



V6PR-2

Flex HANDY Wireless Radio Remote Controls

Part #	List Price \$	Buttons	Output Relays	Frequency	Transmitting Power	Voltage	Enclosure Rating	Rechargeable Transmitter
FLEX HANDY-2S	1878.00	2	2+2 AUX	433.050MHz ~ 434.575MHz	2.0mW	9~36VDC	IP66	No
FLEX HANDY-2SR	2272.00	2	2+2 AUX	433.050MHz ~ 434.575MHz	2.0mW	9~36VDC	IP66	Yes

Note: AUX outputs can be programmed to control an unloading valves, starter solenoid and more - contact us for all programming options

Field programmable via dip switches

SIL 2 PLd emergency stop

Transmitter hook included

2SR model inc. charge station & rubber guard



Flex HANDY Controller Accessories / Replacement Transmitter

Part #	List Price \$	Description
TXC-301	501.00	Replacement transmitter
TXC-301R	630.00	Replacement transmitter (rechargeable)
MLG-02	189.00	Receiver-mounted safety beacon
MBZ-02	507.00	Receiver-mounted safety horn



Flex MINI Wireless Radio Remote Controls

Part #	List Price \$	Buttons	Output Relays	Frequency	Transmitting Power	Voltage	Enclosure Rating
FLEX MINI-M	1484.00	8	8+2 AUX	433.050MHz ~ 434.575MHz	5mW	9~36VDC	IP66
TXC-70	501.00	Replacement Transmitter					

Note: AUX outputs can be programmed to control an unloading valves, starter solenoid and more - contact us for all programming options

Field programmable via dip switches

All FLEX units supplied with rubber guard



Flex ECO Wireless Radio Remote Controls

Part #	List Price \$	Buttons	Digital Outputs	Frequency	Voltage	Enclosure Rating	Rechargeable
FLEX ECO-4S	2384.00	4	4+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	-
FLEX ECO-6S	2596.00	6	6+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	-
FLEX ECO-8S	2755.00	8	8+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	-
FLEX ECO-12S	3126.00	12	12+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	-
FLEX ECO-12X-MS	3126.00	12	24+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	-
FLEX ECO-4SR	3020.00	4	4+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	Yes
FLEX ECO-6SR	3232.00	6	6+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	Yes
FLEX ECO-8SR	3390.00	8	8+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	Yes
FLEX ECO-12SR	3814.00	12	12+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	Yes
FLEX ECO-12X-MSR	3814.00	12	24+2 AUX	433.050MHz ~ 434.575MHz	9~36VDC	IP66	Yes

Note: AUX outputs can be programmed to control an unloading valves, starter solenoid and more - contact us for all programming options



Field programmable via dip switches

All FLEX units supplied with rubber guard

SIL 2
PLD emergency stop

Flex ECO Controller Accessories / Replacement Transmitter

Part #	List Price \$	Description
TXC-101	595.00	4-button replacement transmitter
TXC-102	660.00	6-button replacement transmitter
TXC-103	713.00	8-button replacement transmitter
TXC-104	819.00	12-button replacement transmitter
TXC-101R	690.00	4-button replacement transmitter (rechargeable)
TXC-102R	742.00	6-button replacement transmitter (rechargeable)
TXC-103R	796.00	8-button replacement transmitter (rechargeable)
TXC-104R	901.00	12-button replacement transmitter (rechargeable)
NEW COA-03	168.00	External antenna coaxial cable extension 3 metre
NEW COA-05	203.00	External antenna coaxial cable extension 5 metre
CHR-106	478.00	Charging station
MBZ-01	507.00	Receiver-mounted safety horn
MLG-01	189.00	Receiver-mounted safety beacon
EAK-101	189.00	External antenna
TPC-201	150.00	Flex Eco 4 transmitter padded casing w/ shoulder strap
TPC-202	149.00	Flex Eco 6 transmitter padded casing w/ shoulder strap
TPC-203	164.00	Flex Eco 8 transmitter padded casing w/ shoulder strap
TPC-204	202.00	Flex Eco 12 transmitter padded casing w/ shoulder strap



Flex EPH Wireless Radio Remote Controls

Part #	List Price \$	Buttons	Digital Outputs	Analogue Outputs	Frequency	Voltage
Flex 8EPH	4185.00	8 stepless pushbuttons	8+2 AUX	8+2 AUX (PWM and current)	921~927MHz	12-24v DC
Flex 12EPH	4661.00	12 stepless pushbuttons	12+2 AUX	12+2 AUX (PWM and current)	921~927MHz	12-24v DC

Note: AUX outputs can be programmed to control unloading valves, starter solenoid and more - contact us for all programming options

- Current output rating 0~3 amp
- PWM output 0~100%
- Frequency 921.00 > 927.00 MHz
- Adjustable output frequency 100 > 1000Hz
- Wiring harness as standard
- Independent adjustment (ramp up/down)
- Proportional stepless pushbuttons
- Wireless remote pairing & programming
- Plug & play wiring looms available on request (additional cost applies)



Field programmable via dip switches

SIL 2 PLd emergency stop

All FLEX units supplied with rubber guard

Proportional Stepless Pushbuttons

The innovated inductive-type proportional stepless pushbutton design provides precise and interference-free proportional stepless controls. The pushbutton is extremely reliable and durable for more than five million press cycles.

PWM and Current Receiver Outputs

The innovated receiver design provides easy configurations of receiver outputs with large display window for effortless system programming and status indications.

Flex EPH Controller Accessories / Replacement Transmitter

Part #	List Price \$	Description
TXC-501	1083.00	8EPH replacement transmitter
TXC-502	1295.00	12EPH replacement transmitter
CHR-206	520.00	Charging station
MBZ-02	507.00	Receiver-mounted safety horn
MLG-02	189.00	Receiver-mounted safety beacon
EAK-202	189.00	External antenna
NEW COA-03	168.00	External antenna coaxial cable extension 3 metre
NEW COA-05	203.00	External antenna coaxial cable extension 5 metre



Flex 2JB Wireless Radio Remote Controls

Part #	List Price \$	Control Type	Digital Outputs	Analogue Outputs	Voltage
Flex 2JB-HRX-L	7544.00	Stepless lever	12+2 AUX	8+2 AUX (PWM & current)	12-24v DC
Flex 2JB-HRX-J	6741.00	Joystick dual access cross gate	12+2 AUX	8+2 AUX (PWM & current)	12-24v DC

Note: AUX outputs can be programmed to control an unloading valves, starter solenoid and more - contact us for all programming options

- Wireless charging system
- Frequency 921.00 > 927.00 MHz
- Adjustable output frequency 100 > 1000Hz
- Standard w/ 7 one step buttons - additional configurations on request
- Programmable Transmitter Access Card (TAC) on request
- Current output rating 0~3 amp
- PWM output 0~100%
- Independent adjustment (ramp up/down)
- Wiring harness as standard
- Wireless remote pairing & programming
- Plug and play wiring looms available on request (additional cost applies)

Variable pushbutton switches available

Field programmable via dip switches

All FLEX units supplied with rubber guard

SIL 2
PLd emergency stop



Zero-G Sensor Embedded

The transmitter is embedded with a Zero-G sensor to guard against any unintended control of the crane or equipment when transmitter is thrown or dropped. When triggered, the entire system will shutdown with exception of the horn function. This function is programmed upon request only, not pre-set.

Flex 2JB Controller Accessories

Part #	List Price \$	Description
SWT-604	236.00	2JB 3-position non-latching toggle switch complete with rubber boot & connector
SWT-602	236.00	2JB 2-position non-latching toggle switch complete with rubber boot & connector
SWT-601	236.00	2JB 2-position non-latching toggle switch complete with rubber boot & connector
SWT-603	236.00	2JB 3-position non-latching toggle switch complete with rubber boot & connector
MBZ-02	507.00	Receiver-mounted safety horn
MLG-02	189.00	Receiver-mounted safety beacon
EAK-202	189.00	External antenna
TAC-201	236.00	TAC/RFID transmitter add-on board
TAC-202	36.00	TAC transmitter access card
NEW COA-03	168.00	External antenna coaxial cable extension 3 metre
NEW COA-05	203.00	External antenna coaxial cable extension 5 metre

ELECTRICAL CONTROLS

PWM PROPORTIONAL CONTROLLER, WIRING HARNESS KITS

Programmable PWM Proportional Controller

Part #	List Price \$	Input Voltage	Max Output Current	Dither Frequency	Ramp Up & Down	E-Stop	Connection	Power Lead	Signal Lead
NEW HN-DPC	1600.00	12-24v DC	2.1a	70-350Hz	0.1-5.0s	Yes	Deutsch 2-way Female	3 mtr	5 mtr

User programmable min/max current output

User programmable dither frequency

User programmable ramp setting



Wiring Harness Kits

Part #	List Price \$	Signal Wires	Connection	Signal Cable Length	Main Cable Length	Power Input Lead	Voltage	Max Amp Signal Wire	Max Amp Common Wire
WLDP-1	307.00	1	DIN 43650-A	500mm	3000mm	2000mm	10-50 Vdc/AC	3 amp	6 amp
WLDP-2	333.00	2	DIN 43650-A	500mm	3000mm	2000mm	10-50 Vdc/AC	3 amp	6 amp
WLDP-4	387.00	4	DIN 43650-A	500mm	3000mm	2000mm	10-50 Vdc/AC	3 amp	6 amp
WLDP-6	528.00	6	DIN 43650-A	500mm	3000mm	2000mm	10-50 Vdc/AC	3 amp	6 amp
WLDP-8	573.00	8	DIN 43650-A	500mm	3000mm	2000mm	10-50 Vdc/AC	3 amp	6 amp
WLDP-12	845.00	12	DIN 43650-A	500mm	3000mm	2000mm	10-50 Vdc/AC	3 amp	6 amp

Note: all wiring harnesses are wired with a common AUX function to activate a starter solenoid or unload valve.

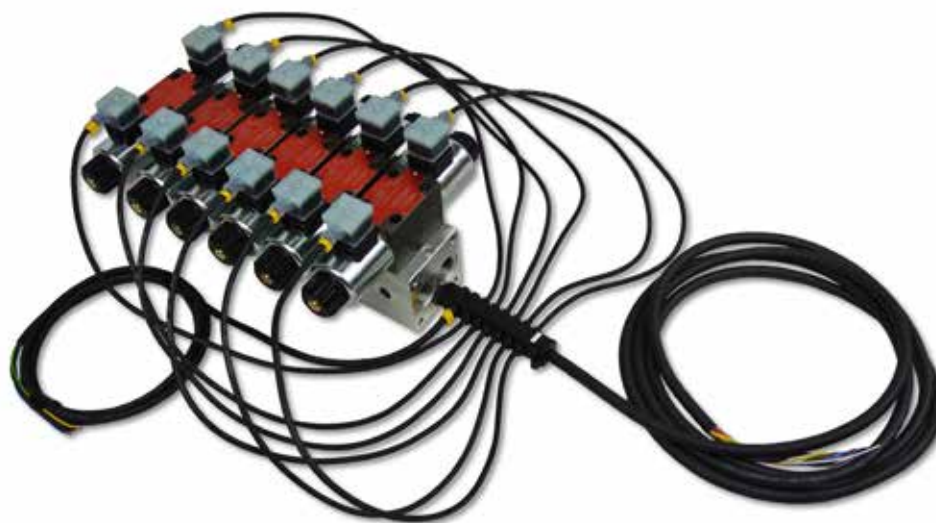
MADE IN EUROPE

Available with 1-12 Hirschman plugs

IP67 rated

PUR cable (oil & flame resistant)

Reduces assembly time

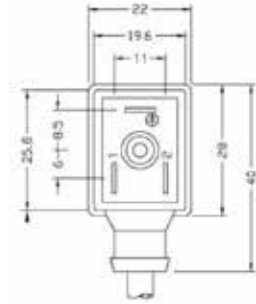


DIN Plugs 43650 Form B IND 2-Pole + PE

Part #	List Price \$	Connector	Circuits	Pre-wired Length	Integrated Gasket	Protection	Voltage DC	Voltage AC	Max. Current
NEW DP-IP65-AC/DC-IND	21.00	Form B IND	Red LED + varistor	-	No	IP65	1-250v	1-250v	10a @40°C
NEW DP-IP67-AC/DC-IND-3M	42.00	Form B IND	Red LED + varistor	3 meters	Yes	IP67	10-50v	-	10a @40°C



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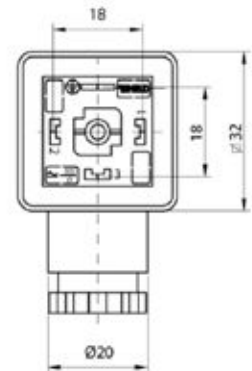


DP-IP67-AC/DC-IND-3M
Pre-wired 3m lead

DP-IP65-AC/DC-IND

DIN Plugs 43650 Form A 2-Pole + PE

Part #	List Price \$	Connector	Circuits	Pre-wired Length	Integrated Gasket	Protection	Voltage DC	Voltage AC	Max. Current
DP-IP67-AC/DC-250	21.00	Form A	Red LED + varistor	-	No	IP65	1-250v	1-250v	10a @40°C
DP-IP67-AC/DC-38	21.00	Form A	Red LED + varistor	-	No	IP65	1-38v	1-30v	10a @40°C
DP-IP67-AC/DC-3M	42.00	Form A	Red LED + varistor	3 meters	Yes	IP67	1-42v	10-30v	10a @40°C
DP-LED-AC	13.00	Form A	Red LED	-	No	IP64	-	1-250v	10a @40°C
DP-LED-DC	13.00	Form A	Red LED	-	No	IP64	1-42v	-	10a @40°C
DP-REC-LV	35.00	Form A	Red LED + rectifier	-	No	IP65	-	10-50v	1.4a @40°C
DP-REC	35.00	Form A	Red LED + rectifier	-	No	IP65	-	70-250v	1.4a @40°C



DP-IP67-AC/DC-3M
Pre-wired 3m lead

DP-IP67-AC/DC-250
DP-IP67-AC/DC-38
DP-REC-LV
DP-REC

DP-LED-AC
DP-LED-DC

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