MINI-SCREEN Model MSCA-1-65784

Supplement to Primary Instruction Manual 39022

WARNING . . .
It is very important to keep this document with its associated primary manual.
Both contain information critical to the operation of the MINI-SCREEN System.



Description

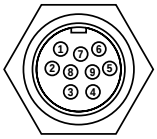
The associated control box is a special modification of the MINI-SCREEN controllers to include the addition of quick disconnects for Emitter, Receiver, and machine interface.

The MSCA-1-65784 is a Trip-output controller. Its primary instruction manual is part number 39022.

The information contained in this supplement either replaces or supplements some of the material in that manual. **It is very important to keep this document with its primary manual.** Both contain information critical to the operation of this MINI-SCREEN Safety Light Screen system.

A section number or figure number will be listed, followed by the word “replacement” or “addition”. If an item is a replacement, that entire item is to be replaced with the information that follows and the material contained within the original manual is to be ignored. If the item is an addition, the material in the original manual is still valid, in addition to the material contained in this supplement.

Input/Output Connector



1	Orange	FSD1	b
2	Blue	FSD1	a
3	Red/Black Tr.	FSD2	b
4	Green/Black Tr.	FSD2	a
5	White	N	
6	Red	SSD1	a
7	Green	⏚	
8	White/Black Tr.	SSD1	b
9	Black	L	

Sensor Connector



1	Black	$\overline{TR}$
2	Blue	COM
3	Yellow/Green	DRAIN
4	Brown	+12V dc
5	White	TR

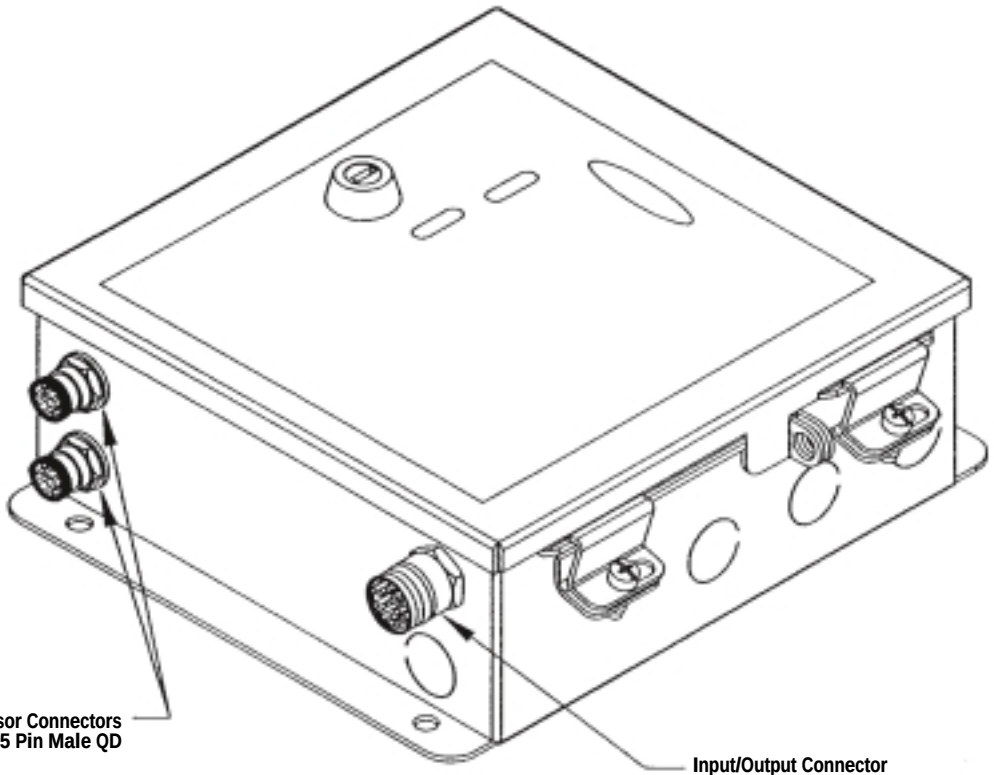
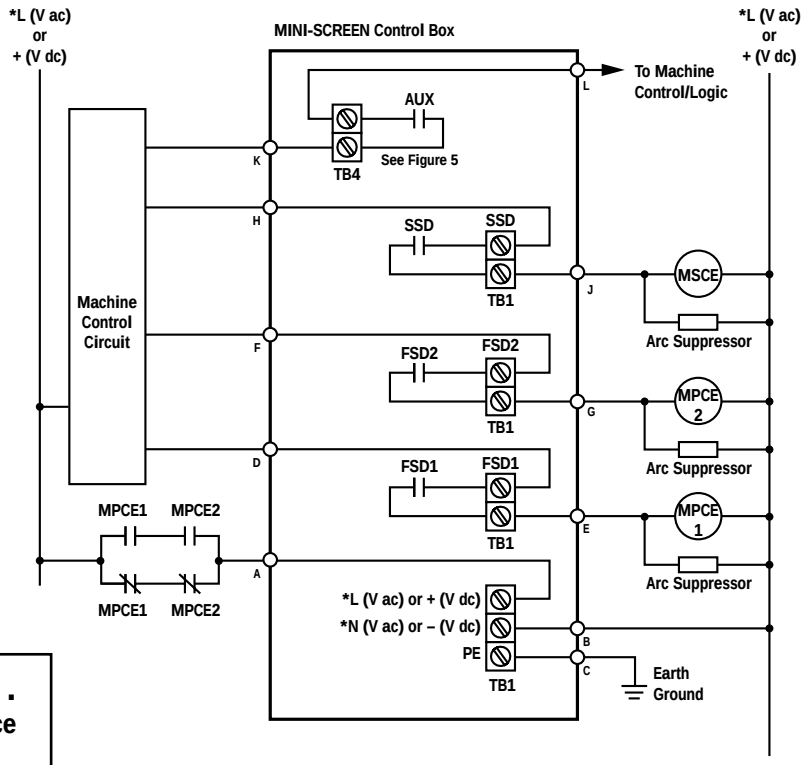


Figure 19 Addition
Figure 19(s). Location and description of QD connectors



*WIRING NOTE:
In USA and Canadian 115V ac and European 230V ac supply systems, L is ac "hot" and N is ac "neutral". In USA and Canadian 230V ac systems, L and N are both ac "hot".

CAUTION . . . External Device Monitoring

If the application does not require External Device Monitoring, the EDM input must be jumpered. **It is the user's responsibility to ensure that this does not create a hazardous situation.**

WARNING . . . Arc Suppressors

Never install arc suppressors directly across the output contacts of any safeguarding device.

If arc suppressors are used, they must be installed as shown across the coils of the safety relays. It is possible for suppressors to fail as a short circuit.

If installed directly across the contacts of a safety light screen switching device, a short-circuited suppressor will create an unsafe condition that could result in serious injury or death.

WARNING . . . Use All Safety Light Screen Output Contacts

All MINI-SCREEN System output contacts (FSD1, FSD2, and SSD) must be used.

The generalized wiring configuration shown here is provided only to illustrate the importance of proper installation.

The specific actual wiring of the safety light screen system to any particular machine is solely the responsibility of the installer and end user.

Figure 23 Replacement
Figure 23(s). Generic Machine Interface, MINI-SCREEN System

Section Replacement

Cables

Two cables required per system, one per sensor

59658	**DEC-507C**	2.1 m (7') 5-pin Female both ends (20 ga)
47360	**DEC-515C**	5 m (15') 5-pin Female both ends (20 ga)
47361	**DEC-525C**	8 m (25') 5-pin Female both ends (20 ga)
52369	**DEC-540C**	12 m (40') 5-pin Female both ends (20 ga)
47362	**DEC-550C**	15 m (50') 5-pin Female both ends (20 ga)
52395	**DEC-560**	18 m (60') 5-pin Female both ends (16 ga)
52365	**DEC-570**	21 m (70') 5-pin Female both ends (16 ga)
52366	**DEC-5100**	30 m (100') 5-pin Female both ends (16 ga)
57137	**DEC-5125**	38 m (125') 5-pin Female both ends (16 ga)

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